

# The National Locksmith

October 2003  
Volume 74  
No. 10  
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**STAND  
ALONE  
ACCESS  
CONTROL**



# NEW FROM HPC!

**No, it's not a Blitz™ Machine!**

## It's the **Switch Blitz™** 2 Machines in 1 - Cut by Code and Duplicate!

"This is just  
what I need!"

"Wrap it up,  
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"This is perfect  
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"Genius!"

"I love this idea!"

No. 1233CMSB

*Just a few of the comments overheard at the 2003 ALOA Show regarding the release of the Switch Blitz™.*

The new Switch Blitz™ combines the best of both worlds. It's a Blitz™ code machine combined with a semi-automatic duplicator. Now you can have two world-class key machines in the bench space of one! Easily switch from code cutting to duplication and back again. The cutter head pivots to cut high security angle cuts by code. With optional adapters the Switch Blitz™ can cut tubular and Tibbe keys effortlessly. It uses the same code cards as your Blitz™ and 1200CM.

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- If you only have space for one key machine...
- If you love the Blitz™, but really need a duplicator...

**The Switch Blitz™ is the machine for you!**

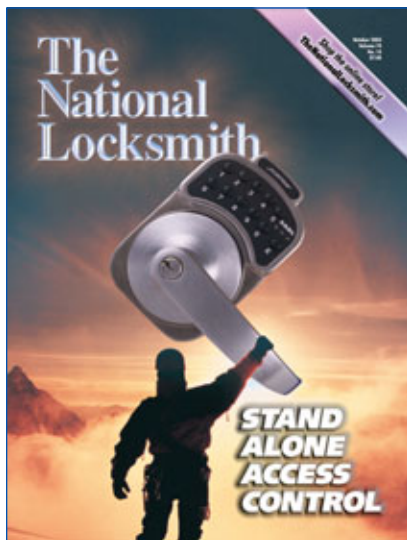


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Circle 318 on Rapid Reply

## On The Cover...



No wiring concerns, no integration headaches, no compatibility problems. Stand-alone access control products offer you independence freedom, security and flexibility.

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### National Publishing Company

The National Locksmith® ISSN #0364-3719 is published monthly by the National Publishing Co., 1533 Burgundy Parkway, Streamwood, Illinois 60107-1861. Periodicals postage paid at Bartlett, Illinois 60107 and additional mailing offices USPS 040110. Subscriptions \$46.00 per year in the USA: \$58.00 per year in Canada; \$72.00 in all other countries. Single copies \$7.00 each. Postmaster, please send change of address to National Publishing Co., 1533 Burgundy Parkway, Streamwood, Illinois 60107-1861.  
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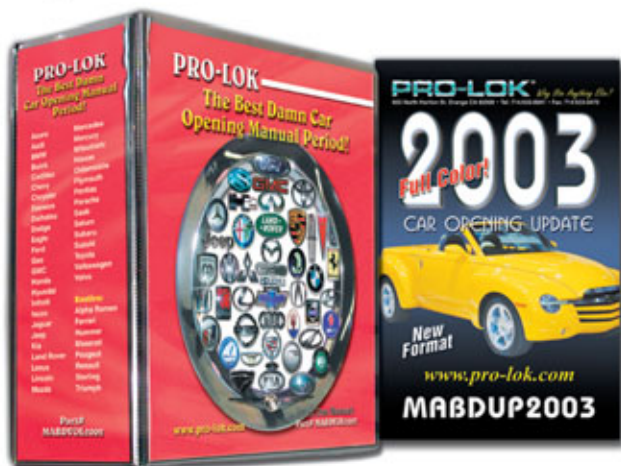


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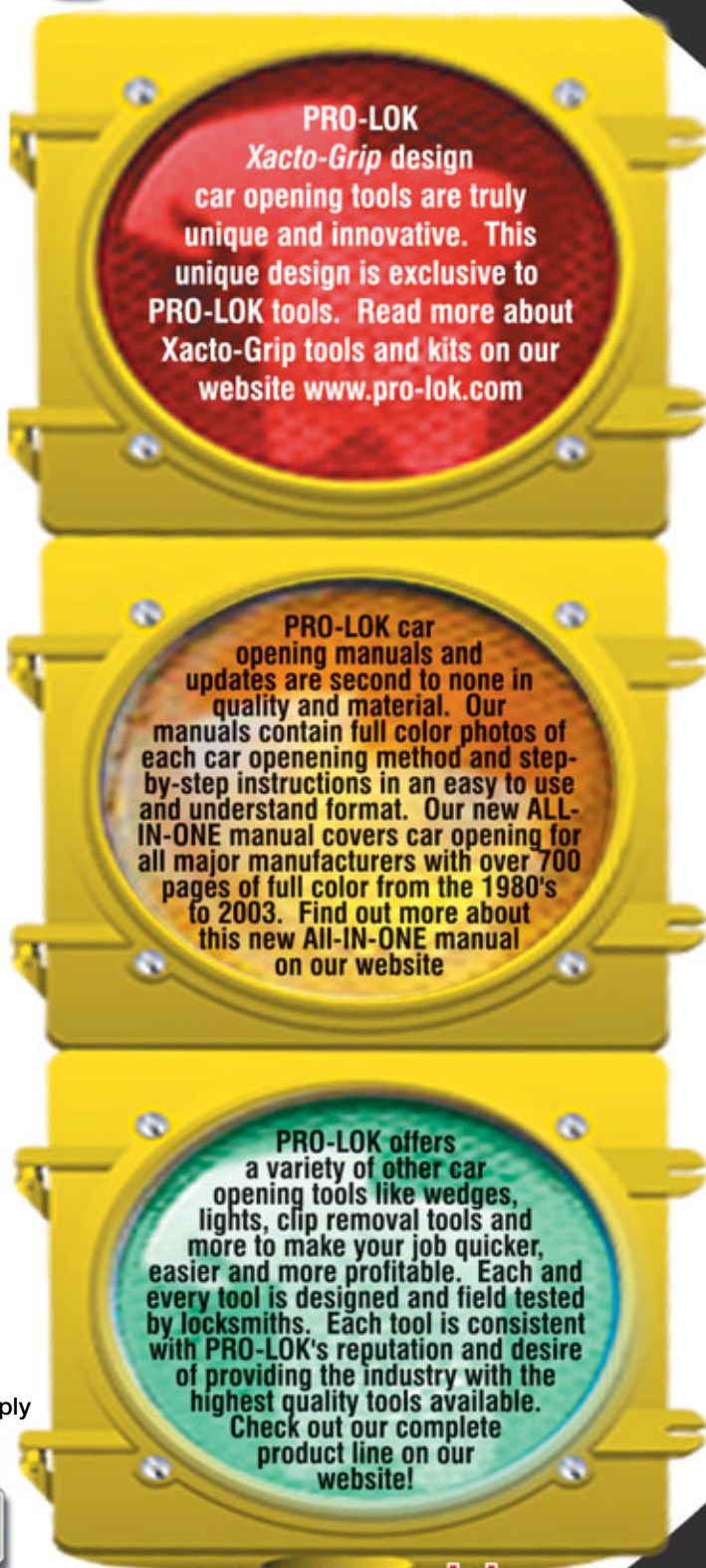


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opening manuals and updates are second to none in quality and material. Our manuals contain full color photos of each car opening method and step-by-step instructions in an easy to use and understand format. Our new ALL-IN-ONE manual covers car opening for all major manufacturers with over 700 pages of full color from the 1980's to 2003. Find out more about this new All-IN-ONE manual on our website

PRO-LOK offers a variety of other car opening tools like wedges, lights, clip removal tools and more to make your job quicker, easier and more profitable. Each and every tool is designed and field tested by locksmiths. Each tool is consistent with PRO-LOK's reputation and desire of providing the industry with the highest quality tools available. Check out our complete product line on our website!

to our website [www.pro-lok.com](http://www.pro-lok.com)





## ***Bad Boys, Bad Boys!***

*We hate to see stories like the one you will read below. While innocent until proven guilty, a locksmith company has been accused of actually committing the crime they were supposed to be thwarting.*

From Channel 8 WTNH Connecticut, by Tina Deteli – A businessman hoping to crack down on a rash of break-ins turned to a locksmith for help. On the surface it sounds like a smart plan, but the man he relied on may have been the one he should have turned in to police.

In the thirty-one years George Dallas has owned his New London car wash he had never been burglarized. That is until April.

"Broken in fourteen times in about six weeks," he said.

Six of those break-ins were in the first week. Dallas says the burglars cleaned out these change machines by breaking through a back door. You can see from the outline of the ground the back door was once covered by a shed which gave the burglars cover.

But they may have had an even greater advantage. When Dallas went to court to see who police had caught he saw the same man who sold him the locks at Radack's Rapid Locksmith Shop in Waterford.

"That's people you trust," he said. "Feel betrayed. I was disappointed because I always have faith and trust in people."

Police say John Radack used his tools of the trade to allegedly rip off several car washes, including one in Norwich where a surveillance camera reportedly caught his company van on tape. His father James Radack, who owns the shop, had no comment.

"From what the police said the person who broke in here was a certified high security dealer, so that really kind of makes you a little bit disgusted," said Edward Lusher, whose American Car Wash in Uncasville was hit twice.

What upsets him the most is that he pays extra for these locks which require a professional locksmith to make copies of the keys.

"It might be foolish, but I'd rather be robbed by a doughnut maker than a locksmith," Lusher said. "There's just something about that that's kind of violating."

Police tell News Channel 8 Radack's brother James and another locksmith employee are also facing charges in the case.

*We at The National Locksmith believe that special circumstances deserve special measures. And a locksmith who commits a crime while on the job, against a client who hires him in trust...is a special circumstance.*

*We are considering contacting the Illinois Attorney General's office, as well as our state legislators to suggest additional penalties against those very few so-called locksmiths who give the rest of us a bad name.*

*If we can get the state where we are located to adopt additional penalties, then model legislation would be available for those of you in other states.*

*We don't view this effort as attacking locksmiths. We see it as a way to PROTECT the vast, vast majority of locksmiths who are vitally concerned with the security of their clients. What do YOU think?*



*Marc Goldberg*

***Have questions? Want free technical help?  
Free Locksmith Forums!***

[www.TheNationalLocksmith.com](http://www.TheNationalLocksmith.com)

**Marc Goldberg**  
Publisher



# Mango's Message

## Bits & Pieces

### ***From the Vancouver Province Newspaper*** **Tummy Rub Gets Motor Running**

London mother Amanda Webster, 34, who was stranded when her teething baby ate a vital part of the car key, managed to start the engine by pressing him close to the steering wheel.

One-year old Oscar Webster had swallowed an ill-sized radio Transponder while playing with her keys in the back of the car.

Thinking that her car had broken down, Webster called the Automobile Association, which dispatched Keith Scott, 37. At first, he thought that the battery was flat. "Then I noticed that part of the key was missing," Scott said. "So we looked around the car. Oscar's mother had let him play with the keys while she loaded the shopping.

All of a sudden, it dawned on me. Mrs. Webster told me that he had been sucking the keys and we realized he might have swallowed part of it.

Assuming the Transponder should work no matter how unusual its surroundings, Scott suggested holding Oscar close to the steering column as the key was inserted.

"She sat him on her lap and made sure that his tummy was pressed up against the wheel. She turned the key and the car started."

Oscar was none the worse for the experience and, when nature took its course, the chip was recovered still in working order.

### **You Know You're A Locksmith When...**

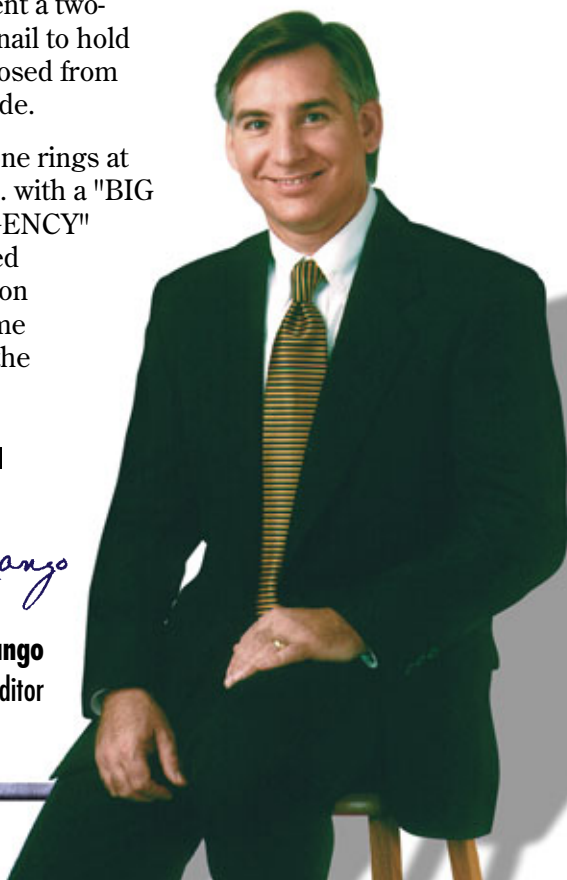
- Some of your best tools used to be screwdrivers.
- When your dress pants have file marks on them.
- You look at a door panel and your arm starts bleeding.

- The only deadbolt in town that doesn't work is your own.
- You are driving on the road and see a new car model and imagine yourself opening it.
- You hear depth and space and think about your code machine, not the universe.
- You try to patent tools made out of milk jugs, car antennas, playing cards and paper clips.
- You never saw a tool you couldn't make yourself.
- You admire a nice safe, and don't even notice that it's full of money.
- You can open a door faster than McGyver.
- You patent a two-headed nail to hold doors closed from either side.
- The phone rings at 2:00 a.m. with a "BIG EMERGENCY" they need worked on some time later in the week.

TNL

*Greg Mango*

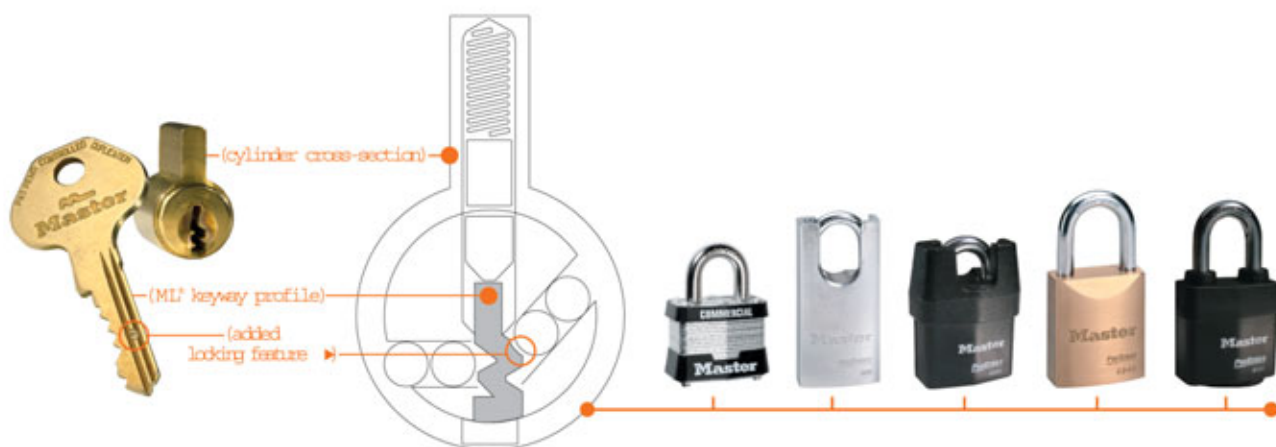
**Greg Mango**  
Editor







**Cut costs without downsizing security.**



**The new **ML**® key control cylinder system takes a bite out of crime. Not your budget.**

Key control. Everyone wants it, but not everyone can afford it. Until now. Master Lock's ML® system makes key control security a cost-effective possibility for virtually any business, thanks to an innovative added cylinder locking feature. And with its proprietary, restricted key blank designs, Master Lock's ML® system prevents unauthorized personnel from obtaining keys. Plus the ML® cylinder fits into almost any Master Lock padlock. Now you can offer greater security to your commercial customers, and lock them in to repeat sales from you. For more information, contact your participating Master Lock distributor or log on to [www.masterlock.com](http://www.masterlock.com), or call us at 1-800-308-9242.



# Letters

*The National Locksmith* is interested in your view. We do reserve the right to edit for clarity and length.

## Obtaining Duplicate Car Keys

*I received this e-mail from the police department of the city of Richardson, TX where I live. It is legitimate. Thank goodness that locksmiths are not mentioned as a part of this scam.*

Just heard this on the news here locally. Apparently car thieves have yet again found a way around the system to steal your car or truck without any effort at all. The car thieves peer through the windshield of your car or truck, write down the VIN number from the label on the dash, go into the local dealership for that car brand and request a duplicate key for it from the VIN number. Car dealerships make up a duplicate key from the VIN number, collect payment from the customer who's really a would-be car thief for making up the duplicate key. The car thief goes back to your vehicle, inserts the key they've just gotten and off they drive with your car or truck.

They don't have to break in, don't have to damage the vehicle

and draw any attention to themselves as all they have to do is to walk up to your car, insert the key and off they go to their chop shop with your vehicle! Can you believe it?

To avoid this from happening to you, simply put opaque tape (like a strip of electrical tape, duct tape or medical tape) across the VIN label located on the dashboard. You can't remove the VIN number legally under most state laws, so cover it, so that a car thief cannot view it through the windshield.

***Note:** Most car dealerships have specific identification and "proof of ownership" requirements built into their procedures before they will release a duplicate key. As far as covering up the VIN with a piece of tape that's going to be an indicator to any police officer that a situation might warrant further investigation.*

John C. Corbitt  
Crime Prevention Unit  
Richardson Police Department  
972-744-4952  
john.corbitt@cor.gov

Laurie Simon  
E-mail

## Technitip Winner

No more injuries from screwdrivers slipping, or screw slots being mangled! Thank you and the manufacturer for the KEEDEX Spin Out screwdriver, I recently received one as a prize for my Technitip.

I also believe I may have read a letter in *The National Locksmith* that came from a former Navy Shipmate of mine Jim Huffman. If you were on the Enterprise 'Nuke' Crew, it would be great to hear from you after 30+ years. My daughter would



forward your e-mail message to me at: taugnersssj@yahoo.com.

Everett Good  
E-mail

## IC Core Turning Tools

Regarding the letter from Howard Meythaler on where to obtain "The Finch Wrench." I have obtained them in the past from Gerry's son. Peterson is also manufacturing an I/C turning tool in a couple of different sizes. Peterson's web site is: [www.Peterson-International.com](http://www.Peterson-International.com)

Bob Strohecker  
Missouri

## Technitip Winner

Just a note of thanks for the prize for the Technitip I submitted. The Sieveking GM Steering Wheel Puller is strong, simple and has clips to retain the bolts, so you don't have to go digging and scrounging for the right length puller bolts. The cylinder guards are something I probably wouldn't have gotten on my own, but now that I have them I am sure I will get more. Thanks again!

Bob Nilles  
Arkansas

**The National Locksmith**  
**1533 Burgundy Parkway**  
**Streamwood, IL 60107**  
**Attn: Editor**



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Circle 354 on Rapid Reply

# SECURITY

DROP IN FOR TOOLS,  
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# Cafe

## Adams Rite Pulls Ahead With New Latch Pull™

The Adams Rite Latch Pull™ is a lockable pull handle that offers flexibility of traffic control during and after business hours. It is suitable for banks, apartments and other buildings, which require free entrance at certain times and controlled or exit only access at other times. The Latch Pull offers one-handed operation and two modes, which can result in the locking of the door upon closure, or the mere latching of the door to allow easy access.



The use of a key unlocks the device. After the handle is pulled once to open the door, the Latch Pull returns to the locked position,

automatically denying access to anyone without a key. The Latch Pull can also be used to set the latch into an unlocked, but latched mode, where key use is not necessary.

The Latch pull's sleek classic looks and heavy duty construction also allow it to blend in with any architecture and withstand the rigors of heavy, everyday use. It is available in 3 painted finishes, has an electrification option and is ADA compliant. The Latch Pull is adaptable to use with either 5-pin, 6-pin or 7-pin lock cylinders, and works with Adams Rite 4500, 4700 and 8400 series latches.

## Corporate Safe Specialists Modular Self-Checkout Solution

The Modular Self-Checkout Solution, (M.SOS) self-checkout technology from Corporate Safe Specialists (CSS) is a saving and revenue-generating concept for Fast Food, Convenience stores and retail businesses. By connecting to a wide variety of existing front office and back office solutions, M.SOS, can send shift or end-of-day reports to existing databases. M.SOS

connects to existing POS, CCTV and Smart Safe systems, making it a tool in cash management both onsite or off. Open architecture means the retailer can grow with technology by adding new software and devices.

Additionally, the M.SOS has the ability to manage the cash stored in a Kiosk, creating a much more secure environment than traditional cash drawers. By reducing available cash, attempted armed robberies as well as internal theft are greatly reduced. The ability to remotely monitor cash will also result in timely pick-ups and bank deposits.

The self-auditing nature of the bill validators reduces or eliminates manual counting of cash funds and the unique ability to provide change for large bills is also a time saver. Finally, its Keyless/Biometric-only access control feature will make the M.SOS not just customer friendly but CFO friendly, too.

## DORMA Grade 1 Heavy-Duty Locksets

DORMA Architectural Hardware's CL800 and CK800 Series Grade 1 heavy-duty cylindrical locksets deliver exceptionally smooth operation, superior strength

and extended service life for the lock mechanism.



DORMA's 800 Series key-in locksets feature a stainless steel retractor combined with bronze roller bearings for durability and performance. In addition, DORMA's 800 Series locks minimize the opportunity for damage to the lock mechanism through a freewheeling design in the operating trims. When locked, the outside lever handle will move freely through a 60-degree arc without operating the latch bolt.

All 800 Series locks are through-bolted for additional strength and reliability. The lock chassis is manufactured with selected stainless steel as well as other corrosion-resistant materials for superior strength. Additional features of this series include reversible handling and optional electrically controlled failsafe (880EL) and fail secure (880EU) functions.





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## Continued from page 10

The DORMA CL and CK 800 Series are U.L. and C.U.L. listed and three-hour fire rated. The locksets meet A117.1 and ADA requirements for barrier-free accessibility. The 800 Series locks have a five-year limited warranty.

## Dortronics Programmable Door Control System

Dortronics Systems, Inc. is displaying the company's new Programmable Door Control system for complex mantrap applications at ISCW 2003. The 7700 Series Programmable Door Control is capable of controlling up to 99 doors grouped into any number of mantraps making the system ideal for applications like casinos, banks, jewelry stores, clean rooms and hazardous areas. In addition, the Federal Government has recently recommended employing mantraps as a method of improving air transportation security.



The system can be programmed in the field using a laptop computer with "Mirror," a simple communication terminal

emulator program. Additional features include: relay outputs for traffic lights; relay outputs to control magnetic locks or electric strikes, or both simultaneously for redundant secure locking; and universal R-E-X inputs to accommodate manual push button or card access systems. Dortronics 7600 Annunciator/Controller is compatible with the 7700 Programmable Door Control Series.

## Klein Tools 1/4" and 5/16" Stubby Nut Drivers

Klein Tools has added two stubby nut drivers to its growing line of professional hand tools. The #610-1/4 and #610-5/16 stubby nut drivers are designed for use in tight spaces and on hard to reach fasteners. The tools have cushion grip handles for greater torque and user comfort.



The new stubby nut drivers are made for 1/4" and 5/16" hex nut and hex screw sizes. The tool shafts measure 1-1/2" (38 mm) in length, with overall length just 3-1/2" (89 mm). The tools are especially useful on recessed can light installation, and electrical

and HVAC/R panels that won't accommodate long shafted nut drivers.

Klein® stubby nut drivers are designed for professionals and are manufactured to Klein's high quality standards. They include internal flanges that provide a solid, twist-resistant shaft anchor. The shafts are hollow to allow work on long bolts or studs. They are also chrome plated to prevent corrosion.

Like other Klein tools, the stubby nut drivers feature Klein's color-coded Tip-Ident® feature on the end of the handle. This identifies the nut driver's size and hex orientation for quicker easier engagement of the fastener. The tools meet or exceed all applicable ANSI and MIL specifications.

## Marks USA Grade 2 Locksets With The "CLUTCH"

Marks USA offers two new key-in-lever Survivor Series, Grade 2 locksets featuring the "CLUTCH," which are available for both conventional and IC cores. When locked, the "CLUTCH" disengages the outside lever allowing it to turn freely. These locksets survive where rigid levers fail.



Each Survivor Series rose contains its own proprietary high-strength lever support spring, which eliminates lever

droop. Marks USA locksets feature a lifetime mechanical warranty. All standard functions are available in both the "American" with angular return and the "Crescent" with a smooth rounded lever. Survivor locks are UL listed for 3-hour fire rating and satisfy all ADA requirements.

## Paktek ToolPak 4Panel™ Back Pack Organizer

ToolPak-4Panel™ is the world's finest backpack for tools. Heavy ergonomic shoulder straps allow you



to carry everything you need, hands free. Go up ladders, into tight places, anywhere, and with ToolPak-4Panel™ you can take it all with you the first time. The new ToolPak 4Panel™ turns that messy old toolbox into an organized workstation that can go anywhere.

ToolPak 4Panel™ features: 4 tool panel that folds out for easy access, over 60 pockets to hold your tools in place, large diagram/document pocket, 2 large outside pockets for bulky items, padded attaché handles for carrying unzipped or



for storing, shoulder straps for hands free carrying.

## Lift'N Roll from StepRider



The Lift'N Roll system consists of two short hand trucks, which you strap on opposite sides of your safe. With a few twists of the wrist, the safe is hydraulically lifted above the ground, automatically locked in place, and ready to roll to final placement. To make it extra simple, the ratcheting strap is permanently attached and special inserts are added to prevent binding.

To "clam shell" through narrow doors simply open the safe door and run the strap behind it. Move either the body or the door of the safe through first, and then let the rest follow. When you have

finished the "clam shell" part of the move, you may gently lower the safe, without damage to floors, and re-strap the load with the safe door closed.

Floor clearance of 1/8" to 4-1/2" is possible with our hydraulic rams to insure the operator can clear low doorways or difficult thresholds. Lift'N Rolls are available in 1000 or 1500 pound capacity.

## Pluggable Automated Garage Door Security

For more than 30 million U.S. homes, the access opening most vulnerable to invasion is the automated garage door. A growing number of law enforcement professionals, crime prevention specialists, security experts and homeowners are

# SECURITY Case



expressing concern that a home garage door secured with a garage door opener (GDO), and no other locking mechanism, is vulnerable to invasion from a variety of security violation

techniques. To address this need, Automated Security Technologies, Inc. (AST) manufactures an automated garage door security solution known as Gaplock.

Gaplock protects against home invasion threats by working with the GDO and rolling code remote to automatically lock the garage door every time it is closed, and unlock it before it is opened. At the 2003 International Door Association EXPO in San Antonio (April 25-26), AST unveiled a pluggable version of Gaplock designed with the installer in mind.

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- 2001 Mitsubishi Montero
- 2002 Isuzu Axiom

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*Each of the cars is covered with dozens of photos, and loads of text to walk you step by step through everything you could possibly have to know about the vehicle. You get car opening, lock removal and service, column service, key and code series information, and many views of the doors, panels and locks.*

NOTE: NLAA members will already have received these materials.

OID 11/02

# SECURITY Case

This new Gaplock operates with the GDO by simply plugging both the Gaplock and the GDO into a control module, eliminating any need to wire it in with the GDO and compressing installation time to less than 10 minutes. Gaplock is sold solely through the door and security industries, and it only requires basic skills and tools to mount Gaplock inside the garage, on the outside of the roll-up door track, on either side of the door.

## Kaba Ilco's SDD Diagnostic Tool

Kaba Ilco's SDD is specially designed and programmed to fit the needs of North American automotive key cutters.

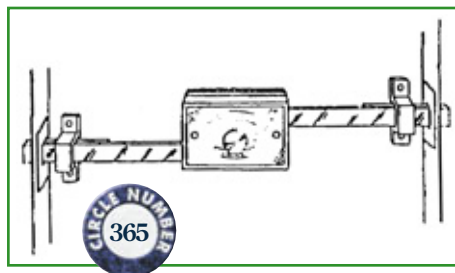


The SDD offers a range of features and vehicle compatibility unrivaled in today's market. The SDD allows users to quickly and easily add, delete and duplicate Transponder keys by communicating directly with a vehicle's central computer.

## Frontier's Double Bar Lock

The Frontier Double Bar Lock is a vandal-proof

locking device designed for in and out swinging doors. The lock, which is mounted in the center of the door, drives two horizontal bars in opposite directions into the doorframe. The bars are moved by a keyed entry on the outside and a thumb turn on the inside.



The tailpiece of the keyway passes through a gear drive, which moves teeth on the bars inside of the lock housing. The outside is protected by a vandal proof plate, which installs over the cylinder.

## Groovy Additions

The latest additions to the Jet Groovy Key line are the Sports Series and Expressions of Faith series. The Sports Series consists of five unique bow designs covering all of the major sports. For



example, football is depicted by a helmet and baseball by a diamond.

The Expressions of Faith series features a head design with religious patterns depicting an expression of faith. The three patterns are the Cross, Star of David and Star and Crescent. Both the Sports and Expressions of Faith series are available in KW1 and SC1 keyways. Display racks are available. Other recent additions to the Groovy line are U.S. Flags, Military, and The Simpsons.

## Keygauge.com

Keygauge.com is a precision-machined gauge block designed specifically to check the calibration of most key machines. By simply cutting a key using Keygauge.com as a guide, you can quickly determine if the depth of your machine is off. You can't cut a key that works if your machine is off. You can't cut a key that works if your machine is not properly adjusted. Nothing is worse than making keys for a customer that won't turn.

There are too many major retail stores making keys that have inexperienced help and insufficient equipment. Customers with bad experiences from this type of establishment seldom return.

When using a standard key micrometer to check your calibration, it's too confusing to measure the cuts and determine an exact reading. Keygauge.com simplifies the process by using an exact .250 reading.

Your machine should be checked frequently or anytime you change the cutter or make adjustments to avoid miscuts. Keygauge.com sells for under \$20.00 plus shipping & handling and is guaranteed or your money back. Go to the website at [www.keygauge.com](http://www.keygauge.com) to see the tutorial complete with pictures.

## Prevent Home Invasions

Spawned by the increasing number of violent home invasions and break & entries,





Innovative Locking Systems has developed what they believe to be, *"One of the strongest and safest door locking systems."*

The Sure-Lock Homes Defense System will withstand well over 5000 pounds of direct force and can be installed quite easily on any door, and any floor. The two main advantages of this lock is that, it uses the floor as an anchoring point for its strength, and because of it's unique floor/door design, this lock will allow partial opening of an entry door to view visitors while providing maximum protection.

The Sure-Lock is available in a variety of finishes—most popular being polished brass and brushed steel. **I.L.S.** is currently designing a variety of security products that will offer the American public, unsurpassed safety and protection.

#### Telephone Entry Features Anti-Pass Back & Elevator Control

DKS DoorKing's new Model 1837 telephone entry system is one of the easiest to use systems on the market today! The 1837 features large A and Z scroll buttons allowing the user to easily scroll through an electronic directory to locate a tenant they wish to visit. Once the tenants name is displayed, one push of the large CALL button connects them directly to the tenant's telephone. No more 3 or

4 digit code numbers to enter on a keypad!

The 1837 is housed in a new esthetically pleasing heavy-duty stainless steel housing and features high intensity LED lighting. Along with its large easy to read LCD display, LED lighting and big, easy to use scroll and call buttons, the 1837 has proven to be an extremely popular telephone entry system, especially in applications serving elderly persons.

Simple to use, yet the 1837 is a sophisticated PC programmable access control system that can provide service for up to 3000 residents, control up to 16 entry points with "Tracker" expansion boards, and stores the last 8000 events in its built-in history buffer so you know the "three W's" of access control: who, when, where. The 1837 will even allow which floor a visitor has access to in high-rise buildings with the elevator control option.

#### Perma-Vault with LaGard eCAM

Perma-Vault's WS-300 in-wall safe is now available with the LaGard eCAM 4700 electronic lock. The eCAM lock operates in daylight mode under normal ambient lighting conditions, or in nighttime mode in low light/no light conditions. In daylight mode the LED flashes briefly each time a key is depressed. The display stays illuminated for two seconds once a correct code has been entered. By pressing "9" in night mode keys will

## SECURITY Case

be illuminated and then flash off briefly after being pressed. After the last number of a valid code is entered the LED will flash off then stay illuminated for two seconds.



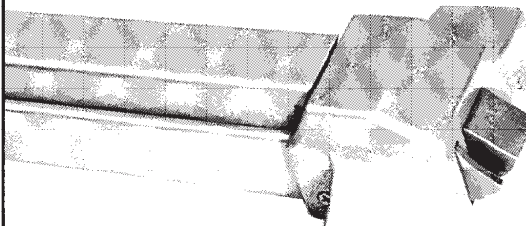
The lock also has an indicator for when the 9-volt battery needs to

be replaced and a five-minute wrong try penalty after four incorrect codes have been entered. The USA-made heavy gauge steel safe, with hidden side hinge for affordable security for homes, apartments, offices, hotels, motels, hospitals, nursing homes and dormitories, is available in 4" and 8" depths. The safe, which has outside dimensions of 15-<sup>3</sup>/<sub>4</sub>" x 15-<sup>3</sup>/<sub>4</sub>" x 3-<sup>1</sup>/<sub>2</sub>" deep and inside dimensions of 14-<sup>3</sup>/<sub>8</sub>" x 14-<sup>3</sup>/<sub>8</sub>" x 3" deep, is designed for easy installation between 16" centered studs. **TNL**

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# Here Are Just A Few Of Our Fantastic Locktoberfest Specials!



## LaGARD

PART NO.	DESCRIPTION	REG. PRICE	SALE PRICE
LGBASIC	Non-Handed Swing Bolt with Keypad	\$78.05	\$66.34
LGCOMBO	2 User Electronic Deadbolt Lock - Buy 24 and get a FREE LaGARD PROGRAMMER \$398.00 Value		\$89.55
LAG3330ADJ	3330 Lock with 1777 Dial & Ring	\$55.11	\$39.99

## SARGENT & GREENLEAF



PART NO.	DESCRIPTION	REG. PRICE	SALE PRICE
SG6120110	Electronic Lock with Satin Chrome Keypad	\$158.18	\$105.00
SG6730ADJS	6730 Lock with D300 & DR211 Black & White	\$74.23	\$49.60
SG4440RL	4440 Right Hand Lock	\$19.89	\$12.75
SG4440LL	4440 Left Hand Lock	\$19.89	\$12.75

## KABA MAS MECHANICAL (FORMERLY ILCO)

PART NO.	DESCRIPTION	REG. PRICE	SALE PRICE
ILC673TLKS	Kaba Mas 673 Lock with Convertible Front Reading Dial & Ring - Black & White	\$47.49	\$41.99
MASB52BL	Kaba Mas LCLX (formerly the B-52) with a metal housing	\$90.00	\$81.00

**NEW &  
Improved!**

## EQUALIZER™ II

The Best Lever Rig In The Business.

Hardplate has met its match. The Equalizer™ II's new self-locking quick connect coupler prevents the drill motor from rotating during use... making our Lever Rig the best in the business.

PART NO.	DESCRIPTION	REG. PRICE	SALE PRICE
L4100	Rig without DeWalt Motor	\$359.00	\$299.00
L4100D	Rig with DeWalt Motor	\$447.00	\$399.00



**NEW!**

## 630 FLEXIBLE SCOPE

There's No More Hiding.

The Lockmasters' Vision 630 Flexible Scope has a great field-of-view at 40°. There is no need for a light source, because it is housed in the handle. Shipped in a hard case and now rigid tubes are available.

PART NO.	DESCRIPTION	INTRODUCTORY PRICE
112576	36" Straight View Scope 5.8 mm	\$374.00
112576T	Optional Rigid Tube	\$35.00
112575	18" Straight View Scope 5.8 mm	\$305.00
112575T	Optional Rigid Tube	\$25.00

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Automotive  
Locksmithing  
Too!



# Automotive Sales!

**NEW!**

## KEYLESS REMOTE CLONING TOOL

Fast & easy to use, the 112154 gives all locksmiths & lock shops the ability to offer quality duplicate remotes to their customers.

Now quickly and easily duplicate existing remotes in seconds with Lockmasters' Keyless Remote Cloning Tool. Determine whether the customer's remote can be duplicated using the 112154 interrogation procedure. Use the 112154 to copy the original remote's coding and addressing for all buttons and copy them to the classically designed Lockmasters' aftermarket remotes.



Cover 60% - 75% of all O.E. and Aftermarket Automotive, Garage Door & Specialty Remotes...

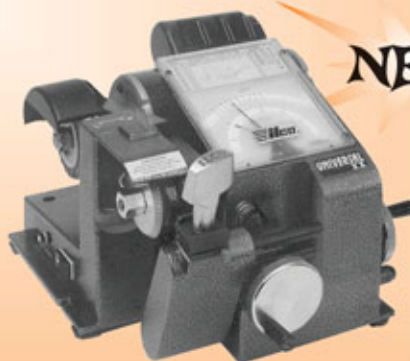
## WITH JUST 1 TOOL.

PART NO.	DESCRIPTION	PRICE
112254	Remote Cloning Kit *	\$635.00
112154	Remote Cloning Tool Only	\$199.95
RMC555303	Remote, Clonable, Preset 303Mhz	\$33.50
RMC555315	Remote, Clonable, Preset 315Mhz	\$33.50
RMC555318	Remote, Clonable, Preset 318Mhz	\$33.50
RMC555418	Remote, Clonable, Preset 418Mhz	\$33.50
RMC555434	Remote, Clonable, Preset 434Mhz	\$33.50
RMC555VAR	Remote, Clonable, Variable	\$33.50

\* Remote Cloning Kit Contains:

- 1 - Cloning Tool
- 4 - 303 Mhz Remotes
- 6 - 315 Mhz Remotes
- 2 - 318 Mhz Remotes
- 1 - 418 Mhz Remote
- 1 - 434 Mhz Remotes
- 1 - Variable Remote

**A Lockmasters' EXCLUSIVE**



## NEW! ILCO UNIVERSAL II CODE MACHINE

The Ultimate "Card Type" Code Machine.  
Best Features. Best Value. Best Choice

The Universal II allows the operator to cut different keys in seconds. Simply insert the code card for the intended lock application into the machine. Create the desired cuts by rotating the machine's depth and spacing cranks. Change to another manufacturer or application by removing the original code card and inserting another.

PART NO.	DESCRIPTION	REG. PRICE	SALE PRICE
UNIVERSALII	Ilco Universal II Card Type Code Machine	\$2,299.00	\$1,799.00

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# STAND ALONE ACCESS CONTROL

**B**y far the fastest growing segment of the access control market is in stand-alone applications. Ease of installation, programming capabilities and ease of use are key factors to its success. There are more choices than ever, each providing a unique application or function for any given application.

## **Alarm Lock's Trilogy® Prox Mortise Lock**

Alarm Lock is pleased to introduce the Trilogy Prox Mortise Lock combining the tough security of a mortise deadbolt with the capability of a prox reader! This rugged field proven lock is ideal for any application large or small, and is already popular with Hospitals, Stadiums and Universities.

The Prox Mortise lock can be programmed with 2,000 User Codes including master, manager,

supervisor or basic users. Users are individually programmed to use a card only, code only, or for the highest security- both card and code. The Prox Mortise accepts most HID Proximity cards and keyfobs. Top features include:

- ✓ 2000 User Codes
- ✓ 500 Scheduled Events
- ✓ 40,000 Event Audit Trail
- ✓ Weather Resistant inside and out, with Operating Temp. of -20 to 151° F
- ✓ Keypad and Windows PC Programmable
- ✓ Available in Classroom or Deadbolt Function
- ✓ Field-Reversible Handing
- ✓ 5 Standard Finishes (US26D, 26, 5, 3 & 10B)

## **Digital Systems Lockey® Keyless Entry Deadbolt**

This Lockey® Keyless Entry Deadbolt from Digital Systems provides complete deadbolt security for our home or business. It is easy to install, easy to use and easy to program. This deadbolt easily replaces your existing hardware, is completely weather proof and requires no wiring or batteries.

Lockey® fits in the existing door hole. Simply drill a 1/4" hole to secure top of lock. If in a new installation, Lockey® installs like an ordinary knob or deadbolt set. All that is needed is a drill and a screwdriver. A template, all instructions and parts are provided to properly mount to any standard door.

Lockey® is easy to use. Simply enter your secret code on the touch pad, turn the knob and your door is unlocked. Secret code can be long or short. To change the code, simply reposition the tumblers, and change codes as often as you'd like.

Choose from: Bright Brass, Antique Brass or Satin Chrome Finish.





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## WHAT'S INCLUDED...

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- ASP part numbers
- Various methods to make the first key from the fastest to the slowest
- Air bag locations
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plus \$8 for shipping and handling. (Item# AS-02D)
- ☐ **YES!** Send me the **2003 Foreign AutoSmart™** for **\$50**  
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**OR** fax credit card orders to (630) 837-1210





**Lockey® Keyless Entry Deadbolt from Digital Systems.**

### **SC20 Keypad From Domino Engineering Corp.**

The SC20 keypad, manufactured in the USA, by Domino Engineering Corporation, is a stand-alone access control for entry doors equipped with electric strikes or magnetic locks. Featuring a lighted “made-for-outdoor-use” keypad with an accompanying interior “control module”, the SC20 offers users twenty programmable codes at a price comparable to interior keypads.

Installation of the SC20 is simple and straightforward. Wiring from the electric strike (or magnetic lock), power supply, keypad, and optional push button are routed to the SC20 control module. Easy to connect terminals make installation quick. The control module is small enough to fit into a single gang electrical box so it can be mounted in a wall or above a dropped ceiling.

Typical applications are homes, apartments, small business employee entrances and interior restricted access rooms. Codes can be changed easily from the keypad by an authorized person using their own master code. Additional features include normally open or normally closed output time duration from 1-99 seconds and “constant on.” The “constant on” feature enables one to temporarily shunt an alarm.



The SC20 suggested list is \$99. Dealer price: \$59.40. Domino’s GD1 single code garage door keypad is \$54 and \$32.50 respectively.

### **IR Recognition Systems™ Standalone Biometrics for Locksmiths**

HandKey II hand geometry reader truly provides this capability. Creating a business differentiator, it should be a part of every successful locksmith’s marketing.





Each HandKey II is a complete door controller providing door lock operation, request for exit and alarm monitoring. All information, including biometric data and decision-making capability resides locally. Users enroll at the unit and their biometric template is stored locally for subsequent comparison. The actual comparison is accomplished within the unit and a lock output is energized depending on the outcome.

Input points can monitor the door switch for "door open too long" and "door forced open" conditions. Outputs can signal a bell or alarm panel if an alarm condition is detected by the system. Time restrictions are programmed through the integrated keypad for individual users. Audit trails are available. The HandKey II easy to install, implement, maintain and use.

Locksmiths and customers using LockLink™ and LockLink Express access control management software to program Schlage CM locks, Von Duprin CM993 exit trim and Locknetics universal controllers can also program HandKey II's, seamlessly integrating biometrics into existing CM installations.

### **Kaba Access - Simplex® 5000 Lockset**

Kaba Access Control is now shipping the Simplex 5000, the newest member of the Simplex family of mechanical pushbutton locks. A clutch-free design and cast stainless steel internal drive parts make the Simplex 5000 Kaba's strongest and most durable mechanical pushbutton access control device.



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At Stone & Berg, we stock a large variety of locksmith supplies and architectural hardware. With our 24 hour toll-free fax and no minimum order, you can place your order at any time of the day or night. Give us a call, we'll be glad to help, that's the 25 year tradition of service and quality you've come to know and trust.



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The keyless convenience of Simplex locks, introduced over 40 years ago by Ilco Unican, now part of the Kaba Group, combined with extra heavy-duty security characterize the Simplex 5000. To operate it, users simply enter the combination, press the "enter" button, and turn the ADA-compliant lever. After employee, tenant or guest turnover, combination changes take seconds without removing the lock from the door. The key override feature provides emergency access for authorized personnel. Plus, the lock accepts industry-leading cylinders, Best interchangeable cores, and large format removable cores, allowing facility managers to maintain a master-keyed security system.

### **Marks USA Announces Price Breakthru In Access Control**

Marks USA announces a price break-thru in stand-alone access control. The new I-Que Metro is an all-weather, heavy duty, grade 1 construction lockset with a 32-user capability, and a black powder coat crinkle finish. It is keypad programmable and has functions for: manual passage mode, first manager to arrive, double code entry, PIN only function and 8 programmable holidays. The I-Que Metro runs on 4 AA batteries included with purchase. It is ADA compliant; UL listed and carries the Marks lifetime mechanical and electronic warranty.



levers on both sides can be re-handed easily, grade one extra heavy-duty dead-latch. Heavy-duty surround plates come standard for inside and outside to fully cover 2-1/8" hole. Heavy-duty grade one latch comes standard, easy to use real passage function (code free entry) included. Beautifully finished in satin nickel/chrome 2-3/4" backset only.

### **OMNILOCK, OP135 From OSI Security Devices**

OSI Security Devices of San Diego, CA announces the OP135, a 100, 300, or 500-user Standalone Access Control System that allows users to program HID

**Continued on page 26**



### **Morning Industry's Heavy Duty Grade 1 MP 500**

This new mechanical pushbutton lock is very heavy-duty with a real passage function. It will replace most bottom type keyed latch knob locks. Installation is very easy. Heavy-duty large full sized



# Forté™

**QUALITY STAINLESS STEEL  
ARCHITECTURAL LOCKS**

## HaspLock Regular

316-grade  
Stainless Steel



Single-Hinge model

Double-Hinge model

# Storefront, door, gate & storage security never looked this good



Toolboxes & storage



Vending machines  
using "hinged"  
models

Mounts flat across frames



316-grade  
Stainless Steel

**PullBolt Face-Mount**

Mounts at 90° angles



316-grade  
Stainless Steel

**PullBolt Side-Mount**

The new range of Forté™ Stainless Steel Locks sets new standards in quality commercial and industrial gate locking security. They are designed for all types of storefront, door, gate and storage locking, either as add-on security for existing locks or as primary locks. All locks are highly resistant to hacksawing, levering and oxyacetylene cutting. All Forté HaspLocks (3 models) and PullBolts (2 models) use a standard 6-pin "key-in-knob" style lock cylinder which can be keyed alike, master-keyed, maison-keyed or replaced with high security systems such as Abloy, Assa, Kaba, Medeco, Mul-T-Lock, Schlage Primus...

## SAFETY GATE HINGES

Tension-adjustable, self-closing hinges ideal for all types of safety gates. Tough & durable polymer construction. No rust, binding, sagging or staining!



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**TRU-CLOSE®**  
ADJUSTABLE, SELF-CLOSING GATE HINGES

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## A PRIVACY GATE LATCH THAT OPENS & LOCKS FROM BOTH SIDES!



**LOKK-LATCH® PRO**

- Opens & locks from both sides
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Proximity cards and/or PIN codes at the door. Designed for anything from a one-door to a two-hundred-door installation, this system allows users to add or delete users and/or HID Proximity credentials without Transfer Modules or special software knowledge. Using a Pocket PC, users can retrieve audit data, create time schedules, upload text files of new users, and run diagnostics.

Because of OSI's continuing emphasis on modular electronic design, this product is immediately available in a multitude of hardware configurations. OSI offers this product in Cylindrical, Mortise, Exit Device Trim (adapts to Von-Duprin, Corbin-Russwin, Precision, Sargent, Arrow, and Yale), Cylindrical Quick Adapter (adapts to existing Schlage D-50, 53, 60, 66, 70, 73, 80, 82, and 85 Cylindrical locks), Mortise Quick Adapter (adapts to Schlage, Best, and Corbin-Russwin Mortise locks), and Wall Mount System configurations (controls electrified hardware such as electric strikes, magnetic locks, elevators, or electrified drive-through gates).

### **Rosslare's New AC-G44 Prox and Keypad Stand Alone Controller**

Introducing the new AC-G44 Prox and Keypad Stand-Alone controller. Get the full features of Rosslare's high-end stand-alone controllers in a weatherproof, epoxy sealed, UV protected plastic housing with a backlit keypad. The AC-G44 comes with a limited lifetime warranty.

Supporting up to 500 users, the controller features three modes of operation for different security requirements, which in conjunction with three user levels, allow security administrators to authorize different levels of access to individual users through Proximity Cards or PIN entries or a combination of both Prox + PIN.



A programmable auxiliary input and auxiliary output with eight auxiliary modes provides for a multitude of applications and installations. User-friendly key sequences for programming make the task of learning the system's operation simple and quick to absorb. Eliminating the need to constantly refer to user manuals for both end-users and installers. A "Code Search" feature makes maintaining user codes easier.

### **The Radio Key® From Secura Key**

When it comes to stand alone access controls, sometimes less is more.

Because space for mounting a reader is often very limited, a compact reader housing is desirable. The Radio Key® RK-65K, from Secura Key, is only 1.5 inches wide and 3.5 inches tall. It fits easily on most doorframes and mullions.

Less complicated programming also makes an access control unit more desirable. The RK-65K is programmed with a simple deck of sixteen cards, allowing users to be added or deleted individually or in blocks; unlock time to be changed and different reader modes to be activated.

Less cost is another desirable feature. You can just about double your cost for the RK-65K and still sell it for \$250.00.

More users is always a plus. The RK-65K can handle an amazing 65,000 cards and tags!

**Continued on page 28**







# AUTO-SECURITY PRODUCTS

## **NEW! T-CODE** **COMBINATIONS** **Starter Packages**

You can get started with less investment with one of these new lower cost combinations. All T-Code machines are fully updateable, so you can add more programs as your transponder key programming business grows.

### **T-CODE American Car Starter Pkg.**

Includes the T-CODE hardware plus the following programs only:

**CHRYSLER-JEEP**  
**FORD USA PATS-1,**  
**PATS-2, and PATS-3**  
**Ford CAN System**

Order no.  
**T-CODE - AP1 \$3,999.00**

### **T-CODE Japanese Car Starter Package**

Includes the T-CODE hardware plus the following programs only:

**HONDA all models (systems 1,2,3,4)**  
**MITSUBISHI all models**  
**NISSAN-INFINITI all models**

Order no. **T-CODE - JP1 \$4,800.00**

**INCLUDES the**  
**American and**  
**Japanese**  
**Starter Packages**

**PLUS the**  
**following:**

**Cadillac Catera**  
**Volkswagen-Audi**  
(includes PIN  
code reading on  
some models)

Order no.  
**T-CODE - CP1**  
**\$6,649.00**

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**Package**



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With proximity readers, more read range is also desirable. The RK-65K detects cards up to 6 inches away, even in a purse or wallet. And patented Dynascan® technology dynamically tunes the RK-65K, so it can be mounted right on metal.

### **Securitron's Stand Alone Battery Lock (SABL)**

The Stand Alone Battery Lock (SABL) from Securitron offers effortless programming and proven quality in a sleek, low profile package. The programming is based on the popular and award winning DK-26. Offered in four architectural finishes-polished brass (US3), bright chrome (US26), oil rubbed bronze (US10B) and satin chrome (US26D), SABL is perfect for offices, schools and hospitals. SABL is available with SCI, Yale and Sargent keyways, and prepped for Best small format IC core.

As with all Securitron keypads, SABL is designed for high volume use in controlling access through electrically locked doors. It is simple to use, with programming possible from the keypad itself, and yet includes powerful features to solve specific application problems, such as a toggle on/off passage and keypad lockout function. This ease of use, combined with the Yale 5400LN Series Cylindrical Lockset and its own attractive design make SABL a bold new choice in access control.



The Stand Alone Battery Lock combines true 10-digit operation with stand-alone ease of installation and maintenance by combining a digital keypad system with a cylindrical lockset designed for medium or high security control. It consists of two main components: the keypad and the on board CPU. With the keypad on one side of the door, and the CPU on the other, the SABL offers the same tamper resistance as the DK-26. Interfering with or even destroying the keypad will not release the door.

### **IEI Further Broadens Wireless Palm Based Communications**

International Electronics, Inc. announces the expansion of its popular LS Series battery operated access control locksets. Building on the success of its LS-1 Access Control Lockset, IEI today announced the release of the LS-2 and LS-2P Access Control Locksets. The LS-2 and LS-2P can be managed with IEI's flexible HubManager™ professional access control software using a handheld Palm,™ device to wirelessly transfer data to and from the units.



The LS-2 and LS-2P have storage capacity for 2000 individual users and provide access level, time zone and holiday scheduling through IEI's HubManager™ Professional software. The LS-2P includes an integrated HID proximity (RFID) reader capable of reading any new or existing HID proximity card.

The LS Series products replace a standard lockset and require as little as one additional hole to be drilled for mounting. All LS Series products are non-handed and can be installed indoors or out. LS Series products can be used up to 150,000 times (100,000 for LS-2P) before four standard AA batteries need to be changed. LS Series locksets are UL listed as well as ANSI and ADA compliant. **TNL**



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# GUARDMAN

from

*Kustom Key*



by  
**Sal Dulcamaro,**  
**CML**

**W**hile many locksmiths would like to be able to sell the more expensive heavy-duty and high-security locks to all customers, that is not likely to happen. For many customers, the middle priced locks aren't even on the agenda. In those cases, it often comes down to the low priced import residential locks. With the hardware superstores like Home Depot and Lowe's, the price you are competing with is often about \$7 or \$8 retail. When you check your hardware supplier, many times your wholesale price for a similar lock is that retail price or maybe even a few dollars more. Kustom Key has introduced a line of low priced import residential locks that will give you the ability to compete with the big guys.

Under the "Guardman" brand name, Kustom Key brings competitively priced import residential locks that can be keyed to match either Kwikset or Schlage brand locksets. I was only sent samples of the Schlage compatible locks to review, so I will describe the Kwikset compatible first and later go over the Schlage compatible product with pictures to illustrate.

The Kwikset compatible locks (knobs and levers but not the deadbolts) bear a very strong

physical resemblance to some of Kwikset's lighter duty residential style tubular locksets. The Guardman 576 series locks look very much like the Kwikset 400 line of residential knobs and appear to be serviced in the same way. The knob style looks like Belair. They are only available in polished and antique brass finishes. The lock functions are limited to entrance, privacy and passage. All functions and finishes come between \$4 and \$5 for their wholesale price. If you wanted, you could sell them for \$8 or \$9 at nearly a 100 percent markup.

The Guardman 6873 series locks have a straight (non-handed) lever handle on each side for the passage and privacy functions. The entrance function locks have levers on the inside and knobs on the outside. The Guardman 8972 series residential locks are similar, except that the levers are handed because of the decorative scrolled design. That handle style resembles the Kwikset Lido Lever. Like the 6873 series, the 8972 series has levers on both sides for passage and privacy functions, but levers on the inside only for the entrance function. The outside knobs of both the 6873 and 8972 series locks are like Kwikset knobs and have similarly designed lock cylinders. Both

series are only available in polished and antique brass finishes. Depending on the lock function, all these locks have a wholesale price somewhere between \$5 and \$6. All of the Guardman Kwikset compatible latch type locks come with adjustable backset latches.

A standard duty deadbolt is available in the Kwikset keyway, in single cylinder version only. They are available in polished and antique brass. They come with an adjustable backset (2-3/8" or 2-3/4") bolt. They have a \$4.09 wholesale price. This should be very price competitive with locks from the hardware superstores.

## **Schlage Compatible Locks**

There are also Schlage compatible Guardman residential knob locks. The 5791 series lock is cylindrical in design, rather than tubular like the earlier mentioned Kwikset compatible knob and lever locksets. (*See photograph 1.*) This lock is physically heavier in construction than the tubular locksets. The lock shown is in polished brass (US3), but it is also available in stainless steel (32D) rather than antique brass. The lock comes, in the box, partially assembled.

Before installing the lock on a door you will first have to remove the inside knob. (*See photograph 2.*) The narrow poke tool end of a combination spanner





**1. The 5791 series lock is cylindrical in design.**

wrench/retainer actuator tool is used to push in the spring-loaded retainer, so the knob can be removed. A hole on the outer circumference of the rose/escutcheon is designed to hook onto the protrusion of the spanner end of the tool. (See *photograph 3.*) The arc shape of the spanner wrench matches the shape of the rose. (See *photograph 4.*) Under the threaded rose is a screw retained mounting plate. (See *photograph 5.*)

To service the lock cylinder, the

outer knob must first be removed. The retainer access hole is other than 3 or 9 o'clock. (See *photograph 6.*) The poke tool end of the tool indicates that hole, but the knob must be turned first to locate the retainer in that hole. The knob must be rotated clockwise to position the retainer in the middle of the access hole. (See *photograph 7.*) Notice there is no key in the lock cylinder. The cylinder can be removed without having a working key. After the retainer is depressed the outside knob can be pulled off. (See *photograph 8.*)



**2. Remove the inside knob.**



**3. Push in the spring-loaded retainer.**

9000 Series



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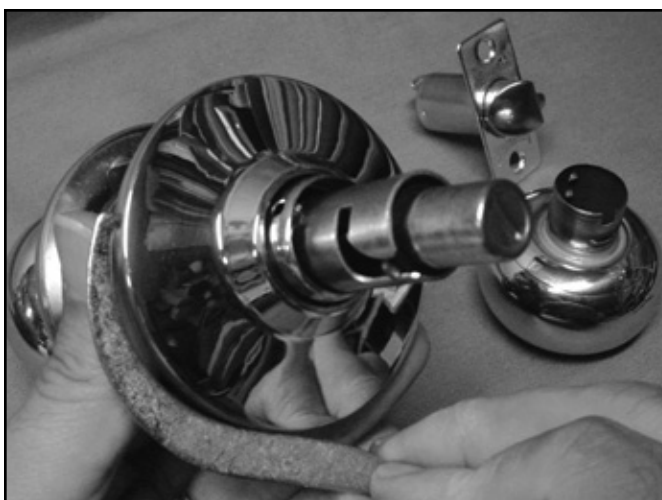
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**4. The spanner wrench matches the shape of the rose.**

With the lock cylinder removed you can see the SC1 (five-cut) Schlage style key is shorter than the cylinder. (See photograph 9.) The cylinder is drilled for six chambers, but it is coded for five. If you used the last chamber, you could match the lock to a currently cut SC4 key. This lock comes standard with a 2-3/4" backset latch, but can be ordered with a 2-3/8" backset latch. This lock is only available in the entrance function. Although originally only available in the SC1/SC4 variety keyway, it can now be ordered with a KW1 keyway cylinder, also. The wholesale price is only \$7.29 each. I don't know about long-term durability, but by first impressions, it seems comparable to locks of a much higher price.

Earlier, I mentioned a standard duty deadbolt lock only available with a KW1 style keyway. That was a model D101 lock and it was only available in single cylinder. A heavier duty deadbolt lock is also available as a model 8211. That model is single cylinder and it was originally available only in SC1/SC4 style keyway. It is now also available in the KW1 keyway. A double cylinder version of that deadbolt lock is the model 8221. (See photograph 10.) The double cylinder version is not currently available in the KW1 keyway.

Except for the strike plate, this deadbolt lock seems fairly hefty. It is among the more tamper resistant double cylinder deadbolts that I've seen. It has a rather interesting assembly and disassembly. Because of fire codes (and potential liability problems), be very careful where you install a double cylinder lock (if you install them at all). Except for an inside thumb turn, lock construction (and assembly/servicing) should be similar between the double and single cylinder versions of this deadbolt lock.

There is a latch bolt guard attached to the outer lock assembly that should limit ice pick or similar attacks on the latch actuating mechanism. (See photograph 11.) It includes an adjustable backset latch bolt. As part of the inside lock assembly the mounting screws are incorporated



**5. A screw retained mounting plate.**



**6. The retainer access hole.**



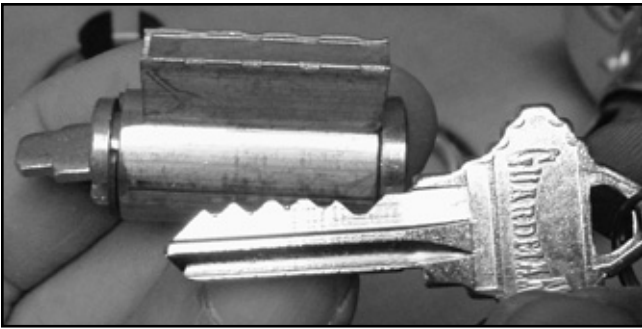
**7. Rotated clockwise to position the retainer in the middle of the access hole.**



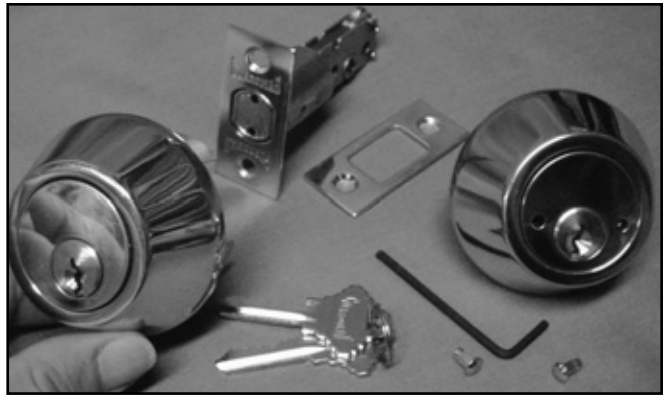
**8. After the retainer is depressed the outside knob can be pulled off.**

**Continued on  
page 34**

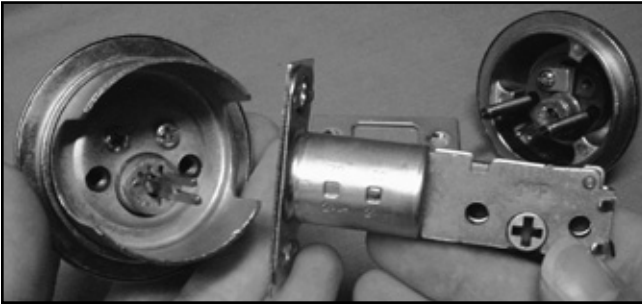




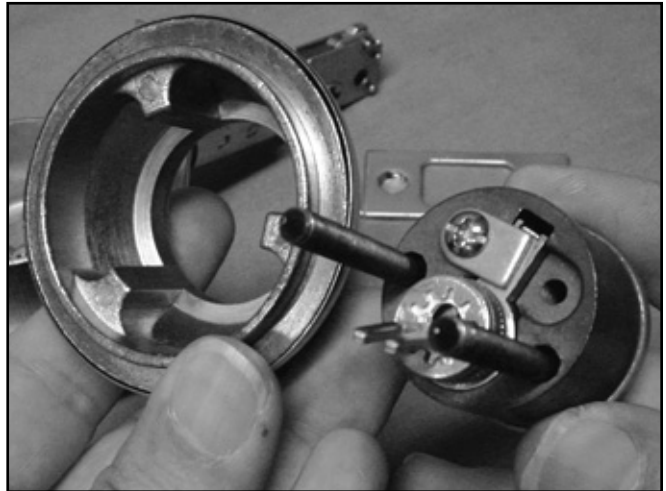
**9. The SC1 (five-cut) Schlage style key is shorter than the cylinder.**



**10. A double cylinder version of that deadbolt lock.**



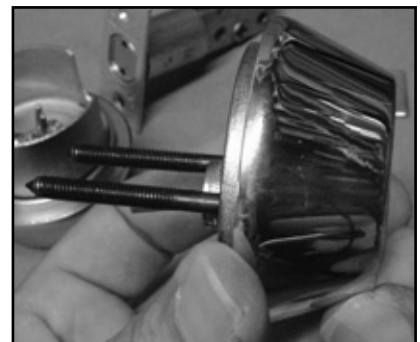
**11. A latch bolt guard attached to the outer lock assembly.**



**12. The inside lock assembly the mounting screws are incorporated into the unit.**

into the unit and are not removed. (See photograph 12.) The lock cylinder fits into a free spinning guard ring. (See photograph 13.) The heads of the mounting screws are concealed from view but small access holes are just the right size for the included Allen wrench. (See photograph 14.) The end of the Allen wrench fits into the hole and it is fairly easy to slip it into the opening of the female hex head screw. (See photograph 15.) Both mounting screws can be tightened or loosened in that manner. The mounting screws are about 1/8" in diameter and more medium than heavy duty.

As I mentioned earlier, think twice before installing any double cylinder locks. However, among double cylinder deadbolts it ranks fairly high in being tamper resistant without being impossible to service and rekey. Since it doesn't use a Phillips or slotted head screw, someone can't just break a window and easily use a screwdriver to remove the lock from a door. It might take a little while to figure out that an Allen wrench was needed to undo the screws. Even then, you would



**13. The lock cylinder fits into a free spinning guard ring.**



## MIDWEST WHOLESALE HARDWARE

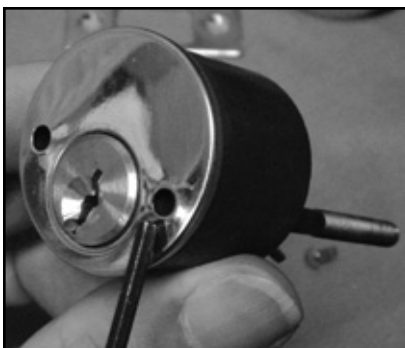
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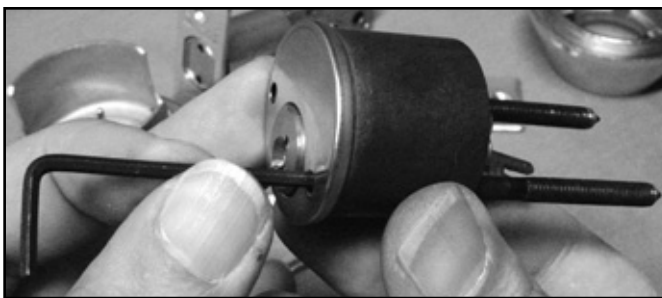
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ARM-A-DOR  
BOMMER  
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DOR-RUSSWIN  
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KABA-ILCO  
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**14. The heads of the mounting screws are concealed from view.**



**16. You can cover the screw access holes with a pair of hole covers.**



**15. The end of the Allen wrench fits into the hole.**

have to figure out the right size of wrench. For a slightly greater tamper deterrent, you can cover the screw access holes with a pair of hole covers that look somewhat like rivets. (See photograph 16.)

The 8211 (single cylinder) and 8221 (double cylinder) deadbolts are available in polished brass (US3) and stainless steel (US32D). The model 8211 deadbolts are \$6.09 wholesale in either SC1/SC4 or KW1 keyways. The model 8221 is \$8.09 wholesale and only available with the SC1/SC4 keyway. Spare

latches for all the different locks are only \$1.79 wholesale, regardless of finish or backset. Coded lock cylinders with two keys are available for any of the Guardman locks at only \$1.69 wholesale. That's a pretty impressive price. Prices were current as of the time I was writing this article. As the price sheet says, "All prices and specifications subject to change without notice."

*For additional information on the Guardman lock product line, you can contact Kustom Key at 800/537-5397. Circle 384 on Rapid Reply.* **INL**

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**D**istribution is the key to the modern day supply chain. It helps manage the flow of materials from the manufacturer to the locksmith. But what does that mean to you and your business? Ultimately, the answer to that question rests with you. Understanding what a distributor can do for you will help you manage that section of your supply chain more efficiently and more profitably.

for popular products. This makes it possible for you to practice the just-in-time supply controls enjoyed by large companies. You buy product when you need it and reduce the amount of inventory you carry.

*Technical support* is another service offered by a good distributor. The problems you encounter in the field will vary and it is important that you are aware of this timesaving

call. You are an entrepreneur on a budget, with a business to build. Distributors can give you the technical advances enjoyed by larger companies. Let them help you, a small business owner, function more efficiently and professionally. These tools are yours for the asking, so ask!

There have been several surveys done recently, including one done by *The National Locksmith*, that have asked customers, "What is the most important thing a supplier can do for you and your business?" I bet you expect "price" or "inventory" to be the number one response. Wrong!

The number one response was "customer service." Not so surprising when you think about it. In an age of automated telephone systems that make it difficult to even speak with a human being, it appears that we all want to be treated as an important person when we spend our hard earned money. So shop for and demand the best customer service from your distributor. Look for pleasant, courteous people who want to be helpful when you are choosing a distributor. Reliability and commitment to serve the customer are other signs of good customer service.

The list of what distributors can do for you is long and I have a word limit for this article. Take a look at what the distributor channel has to offer and how it can benefit you. A good distributor can be business partner to a good customer.

---

*Rosalyn Walker is Telesales Director, Clark Security Products. She started at Clark Security as an Inside Sales Representative in 1990. Telesales Representative since 1993, promoted to Telesales Manager in 1994. BS-Business Administration- University of Phoenix 2000.*



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## See Your Distributor As Your Business Partner

by Rosalyn Walker

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Let's face it. You can buy the same products anywhere. Therefore, the variety and quality of services your distributor offers you is what makes one of them different than the next. Shop for the services that will help you succeed in your business. What follows are a few suggestions of what to look for in a good distributor.

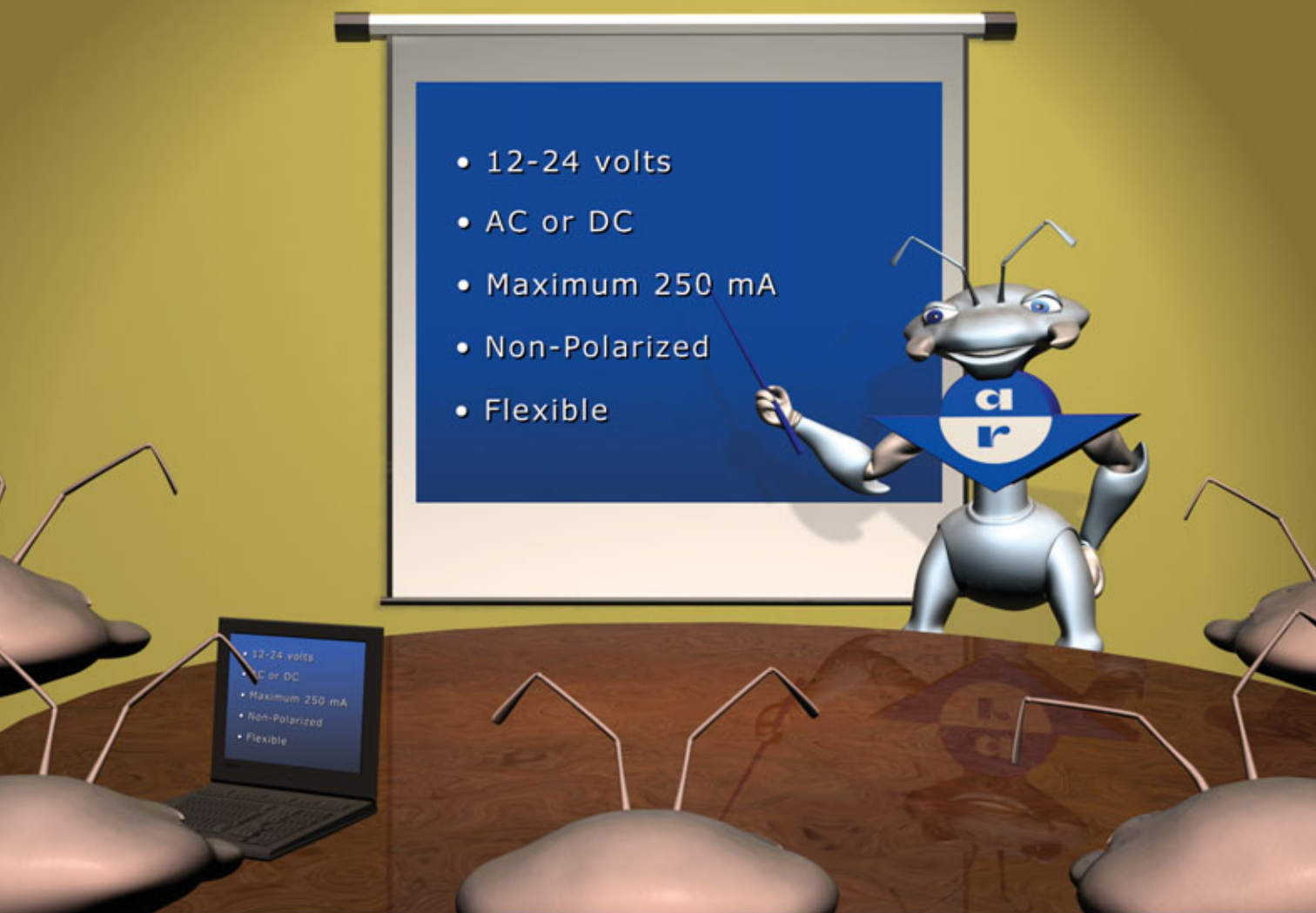
*Convenience* is the first service that a good distributor can give to you. Their basic function within the supply chain is to ensure that the products you need are in close proximity. A distributor with the right inventory composition and same day shipment can arrange a 1-2 day delivery, in most instances,

resource. Take your questions to the distributor first. In most instances, their personnel have been trained by the factory or have experience in the business. But in the event that you manage to stump them then I guarantee you that they will know who to call. Use the distributor's relationship with the manufacturers to help solve your problem. Think of it as technical networking.

*Computer solutions* that help you function more efficiently, are another facet of the services offered by the sophisticated distributor. Internet ordering, catalogs on the web and, in some instances, order histories are available to you with a telephone

# Lesson #3

## Special Applications? Yes. Everyday Use? Absolutely.



**Let's Review:** In Lesson #1 we learned that size does not equal strength. The MS Maglock is very compact, yet its mechanical steel mandibles enable it to withstand 4,000 pounds of force in the event of a forced entry attempt. Lesson #2 taught us that lighter weight makes for faster and easier installation. Now let's consider power and flexibility. The



MS Maglock is tough but stingy with power. It requires a maximum of 250 mA, but uses as little as 100 mA at 12 volts DC. Speaking of voltage, anything from 12 to 24 volts will do. AC or DC? It doesn't matter, choose one. Polarization? None. Just hook up the power connections either way. Need more information? Contact Adams Rite today at 800 87-ADAMS.



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# QUICK ENTRY UPDATE



by  
Steve Young

TECH TRAIN  
PRODUCTIONS

## Jeep Liberty 2002-2003

I first saw the Jeep Liberty in January of 2001 when it was introduced at the Detroit Auto Show. (See *photograph 1.*) I was more than a little pleased when I got to help one of the Chrysler workers change out a door panel on one of the show vehicles. This gave me an opportunity to make a thorough inspection of the front door.

The vertical linkage rod leading from the inside lock button to the latch was not protected by any type of guard other than a cloth anti-rattle tube. This meant that the Jeep Liberty would be a piece of cake to unlock with the TT-1017 tool. And that was the method that I chose to put into the manual because it was the easiest method that I knew of.

After the vehicle actually went on sale, I started getting calls from locksmiths who had run into a Liberty that they couldn't unlock with the TT-1017. When I went to check this out, I discovered that the folks at Daimler Chrysler had added a snap-in plastic guard to protect the vertical linkage rod on the front door. I'm not sure yet when this change took place, but here is an alternative method that will work quite easily on any Jeep Liberty, either with or without the guard.

The rear door also has a vertical lock button, but of course since it's located at the front of the door, it connects to a horizontal linkage by way of a bell crank located just below the lock button. The vertical linkage, bellcrank and most of the horizontal linkage are sandwiched between the inner skin of the door, and the door panel so it can only be attacked at the extreme rear of the linkage.

If you go in through the main window of the rear door, you will find it extremely difficult to attack the linkage at all. Fortunately for us, the base of the small non-opening window located at the rear of the door opens into the door cavity. This in itself is unusual because



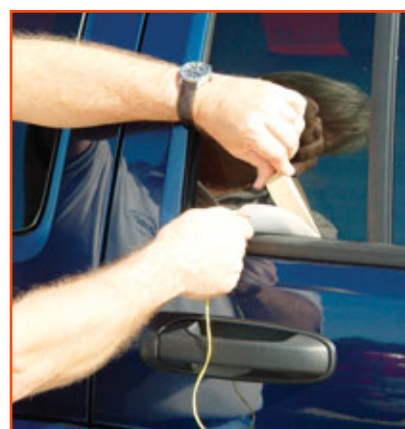
1. 2002 Jeep Liberty.



2. The TT-1001 tool is inserted below the small non-opening window on the rear door.

nine times out of ten, windows of this type are sealed at the base since they do not open. Once you wedge open a small gap below this window you can easily attack the horizontal inside lock control linkage rod with the TT-1001 tool. (See *photograph 2.*)

The inside lock control linkage is the lower of two horizontal linkage rods that are completely exposed at this point. Begin by wedging an opening into the door cavity beneath the small non-opening window at the rear of the door.



3. Use a plastic card to protect the multi-layer weatherstripping as you insert the wedge and the tool.

Because of the double weatherstripping, you will need to use caution to keep the lower layer of the weatherstripping from rolling under your wedge. I use a plastic card inserted between the glass and the weatherstripping to protect the weatherstripping. (See *photograph 3.*) I insert my wedge between the card and the glass and then pull the card out of the door. This prevents damage to the lower lip of the weatherstripping.

Carefully insert the TT-1001 into the door and lower it until it is at least two inches below the level of the outside door handle. Rotate the handle of the tool until the hooked end of the tool is pointed toward the inside of the vehicle. Pulling up on the tool until it stops will bring the hooked end around the lower linkage rod. Twist the tool until you feel it bind the linkage rod and then lever the linkage rod forward to unlock the door. (See photograph 4.)



4. Twist the handle of the tool to bind the linkage and then lever the linkage rod forward to unlock the door.



5. Inside the door the hooked end of the tool locks onto the lower linkage rod, which is also closer to the outer skin of the door than the handle linkage.

#### Quick Reference Guide

##### Vehicles:

2002 - 2003  
Jeep Liberty

**Direction Of Turn:**  
Counter-Clockwise  
(passenger side)

**Lock System:**  
Chrysler 8-cut

**Lock Manufacturer:**  
Strattec

**Code Series:**  
M0001 - M2618

##### Security System:

Chrysler Sentry  
Key System  
optional  
equipment

##### Transponder Key Blank:

Strattec 690504,  
Iico Y160-PT, Jet  
Y160C-PHT

##### Non-Transponder Key Blank:

Strattec 690503,  
Iico P1795, Jet /  
Curtis Y159

Inside the door, the lock control linkage is slightly lower than the handle linkage, but it is also closer to the outer edge of the door. (See photograph 5.) This makes the TT-1001 tool a better choice for unlocking the door than tools such as the TT-1008 tool that are designed to reach linkage rods that are further toward the inside of the door. The hooked end of the TT-1001 tool will slip under the linkage quite easily and it is not necessary to use an inspection light to locate the linkage rod.

Watching the inside lock control button as you position the tool will help you locate the linkage rod easily. If you hook onto a rod that won't move

and you see no movement of the lock button you probably missed the lower rod and hooked the upper inside handle linkage rod. An inspection light can be inserted into the door cavity to help you locate the linkage rod visually if you like, but the linkage rod is very easy to locate by feel.

If you prefer to pick the door lock, the direction of turn is counter-clockwise on the driver's door. Like many of the new vehicles, there is no lock on the passenger side door.

Because of the substantial frame around the window the Jeep Liberty can also be unlocked with the Jiffy-Jak Vehicle Entry System. **TNI**

ASSA believes that key control provides the highest level of security. Statistics say that if 1000 people have duplicate keys to your school's locks, 100 of those people

## SOME PRESTIGIOUS SCHOOLS ARE EASIER TO GET INTO THAN YOU THINK.

have malicious intent. Out of those 100 people, 10 will use the keys and break into your school buildings. Of those 10 people, one will cause serious bodily harm to a victim. ASSA locks can be master-keyed to suit an entire school or a whole school system. Avoid this "Rule of One," protect your school buildings with ASSA locks.

1 Disaster

10 Major Losses/ Incidents

100 Small Losses/ Incidents

1000 Unauthorized Entries

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# ALOA 2003

# Show Highlights



by  
**Bob Sieveking**

**W**ell, another ALOA year has passed, and another ALOA convention has come and gone. Las Vegas was hot. Classes and PRP tests were a flurry in the early part of the week, and the distributors and manufacturers capped the convention with an outstanding show of new products and innovations for the locksmith trade. It was Old Home Week for most of the old timers, with exchanges of ideas and experiences. It was an amazement of new tools and products for the first timers. I had a chance to cruise the convention floor with my camera. Here are just a few of the exhibitors at this years ALOA show.

## American Lock

American Lock sent out the Big Guns here. Representing American Lock were (left to right) Jeff Saladucha and Larry Carpenter. The new 2500 series Shackle less Padlock, with changeable cylinder capability remained the hot topic in their booth.



## CCL

CCL Security Products showed their extensive line of quality padlocks, cam and cabinet locks. They



were represented here, by (left to right) Bill Walsh (National Sales Manager) and Thomas Melkus (Managing Director).

## Clark Security Products

Clark Security Products presented a fine exhibit, and kept us all in Popcorn this year. Ron Cooling is helping a customer. He operated the popcorn machine for us. I wanted to get one of those for the shop, but it wasn't for sale. Oh, well. We caught (left to right) Meagan Stone, Joe Rigby and John Jeffers, in a rare moment between writing orders.





## High Tech Tools

High Tech Tools were represented by Miriam and Tony Vigil. All of the other sales people were too busy to get into the picture. It was nearly impossible to get Tony to turn around and stop for a minute. High Tech Tools was introducing their One-Hand Jack across the car opening tool. They also did a brisk business with their 2003 car opening tool sets and tool updates. Show specials and new tools drew big crowds at their booth.



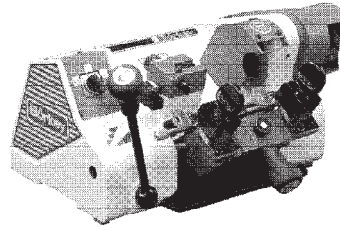
## HPC

HPC had a beautiful large display of their full line. Nearly every locksmith tool imaginable was there. Friendly and knowledgeable staff gave expert explanation of all the items. Behind the desk, we see (left to right). Marty Jalove, Francine Hoffman and Alan Blitstein. Marty took a few moments to show me some of the new items for 2003. HPC introduced the new Switch Blitz™ key machine, which is both a manual code machine and semiautomatic key duplicator. Many new features on this time tested key machine platform require seeing for believing. They also introduced a new key cabinet that accepts standard mortise cylinders, so that the key cabinet can be locked using a key from the building system. They have improved their stamp aligner design by adding a stepper for letter spacing and a position for stamping the face of mortise and rim cylinders. HPC also introduced newly upgraded CodeSource™ programs that runs on your desktop, laptop, hand-held PC, pocket-PC or Palm device. There's always something new at HPC.

**Continued on page 44**



## All-new Börkey Rexa 2000 PLUS



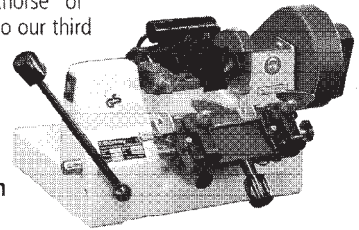
Built to last for years of dependable service and high-volume key cutting! NEW 4-way jaws are precision ground for easy gripping of all cylinder keys. Comes with wire brush.

**Heavy-duty and ACCURATE!**

## The famous Börkey Rexa 3

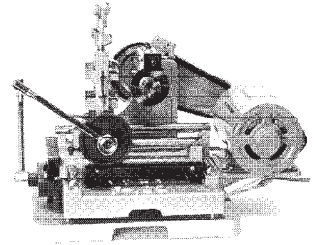
Established as the "workhorse" of key machines. We are into our third decade of selling and servicing Rexa machines.

**Fast and accurate, a great choice and a great key machine! Just ask the locksmith who owns one!**



## Steel King

Cuts all types of bit & barrel keys *and* it does a great job on safe deposit & steel padlock keys! Long keys are not a problem and the Steel King cuts even double-bitted safe keys with ease.



**You'll wonder how you ever got along without it!**

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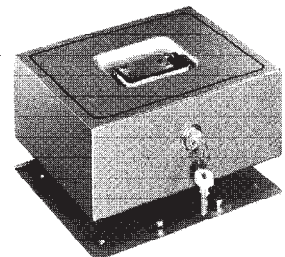
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### **Kaba Ilco Corp.**

Kaba Ilco Corp., always has something new to see. I had an opportunity to talk with (left to right) Chuck Murray (General Manager) and Mike Turner (Product Manager). They showed their Universal II code cutting machine with "Simple and quick depth control calibration." In the transponder key department, Kaba Ilco introduced a new SDD device for programming transponder keys to most of the new transponder equipped vehicles. A great deal of helpful literature was gathered at their booth. I'm sure you'll be reading more from this author on that, later.



Kaba also showed their Kaba Mas safe locks, patented key systems, replacement cylinders, Solitaire & Simplex locks, designer key blanks and security hardware. Expert knowledge and specific service pointers were exchanged on everything they had to offer.

### **Major Manufacturing**

Major Manufacturing showed and demonstrated their innovative lock installation jigs and specialty hole alignment fixtures. A great deal of interest was generated in their aluminum door mortising tools. Major Manufacturing was represented (left to right at the display) by Bill DeForrest, wife Pam DeForrest, and a couple of familiar faces from *The National Locksmith* magazine, Jeff Adair and Greg Mango. Their booth remained busy throughout the show. There were many questions and exchanges of experience concerning metal door lock installations.



### **Monarch Coin & Security**

Monarch Coin & Security, a family owned business since 1903, was represented by Norman Martin. Monarch showed their extensive line of locking coin boxes, coin acceptors and specialty locks for the vending trade. They were introducing a new style key for the Greenwald tubular Hide-A-Key. The new Greenwald key design allows the uncut key to be disassembled, so that it can be cut on any tubular key machine. When the new key is assembled, a drive pin secures the handle to the biting portion of the key. The new design will not loosen or come apart.



### **PRO-LOK Manufacturing**

PRO-LOK Manufacturing presented a smiling face to convention locksmiths. Before the doors open, everything looks neat and relaxed. (left to right) Walter Gamas and Marshal Daugherty (operations Manager) await the rush. Minutes after the doors opened, you couldn't find room to stand in this booth. PRO-LOK introduced a new line of stainless steel picks at the show, along with their 2003 car opening manual, updates and new car opening tools.



### **Sieveking Products Co.**

Sieveking Products Company was represented by Bob and Jane Sieveking, in the Peterson Manufacturing booth. Here is the smiling face of Jane Sieveking. This is the lady that answers the phone at Sieveking Products Co. SPC was showing





the 2003 Fast Facts, no-Pick and The Universal Wafer Lock Reader Tool.

### **Strattec**

Strattec presented a fine display of automotive locks and service components. Mary Grybush, (Service Product Manager) 3rd from right, rear, headed up the team of experienced and knowledgeable professionals. They demonstrated the Strattec version of the Ford push-down ignition. Locksmiths gathered valuable service tips and helpful literature throughout the show.



### **The National Locksmith Magazine**

The National Locksmith Magazine presented a large display of their extensive line of technical books and software for the locksmith. InstaCode 2003 was the hot topic at their booth. Locksmiths connected to the Internet can receive midyear code updates for the



2003 InstaCode program automatically. This assures the locksmith that the latest codes and key information will always be available. Friendly conversation and technical exchanges abounded, as readers and writers came together at the exhibit. **TRU**

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## Standard One Hand Jack Tool

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# Major

## MANUFACTURING

### DRILL GUIDES

**W**ith today's locks requiring more complex template holes (especially the new electronic locks), drill guides make more and more sense. While manufacturer's paper templates will work and show all necessary hole locations, wouldn't it be nice to make sure the holes are drilled straight and true? There's no denying that the prep-work when applying the factory-supplied paper template is an effective method, it can also prove to be a cumbersome as well as time-consuming ordeal. Additionally, many factors come into play that will lead to mistakes that won't be noticed until the lock is ready to be installed.

The use of a drill guide will eliminate much of the guesswork and opportunity for errors will diminish. With Major Manufacturing's reputation of producing finely crafted drill guides and installation templates, lock technicians can be assured of clean and accurate application each and every time.

In this article, we will be taking a closer look at the various

types of drill guides that Major Manufacturing currently produces. They can be broken down into the following categories:

- HIT Series retrofitting drill guides for lever and pushbutton access locks
- HIT-25 Series drill guide for cabinet locks
- HIT-40 and 41 Series router template guides used to install standard and electric strikes in aluminum frame styles.
- HIT-44 Series drill guide for wood and metal doors.
- HIT-45 Series a modular drill/router guide for mortise types locks.

#### **HIT Series Retrofitting Drill Guides**

Major Manufacturing generates a number of drill guides used for retrofitting a standard 2-1/8" cross bore to accept a newer type lever handle lock or push-button access lock. In fact, Major Manufacturing leads the

industry with over 17 available models to choose from. Several of the models currently in production will accommodate more than one type of installation, which makes this series of drill guides a truly versatile tool. All templates come equipped with hardened drill bushings on both front and back plates to allow drilling from either side of the door. The HIT tools use the existing crossbore in the door for setup.

Application of the tool takes less than a minute and the built in alignment washers ensure a secure accurate fit with no measuring or bubble levels to look at. Once the tool is applied to the door, no further prep work is required... just drill the holes!



### **HIT-25 Cabinet Lock Drill Guide**

This is the latest exciting addition to the Major Manufacturing line of products. Those familiar with the process of installing cabinet locks know how difficult it is to accurately



drill a straight hole in the correct location on the door or drawer. The HIT-25 solves that problem because it was created specifically to eliminate the guesswork from attempting a precise installation. The HIT-25 comes equipped with the following features:

- Drill guide bushings to accommodate 3/4", 7/8", 1", 1-1/8" and 1-1/4" Forstner-type drill bits.
- Rubber-lined guide jaws that increase holding power and provide a mar-free installation on expensive cabinet doors.
- A sliding stop which will reduce setup time when performing multiple applications.

### **HIT-41 Electric Strike Series**

Those who have experience with Major Manufacturing's products over the years will instantly recognize this set of installation templates. With



experience, the HIT-41 series can dramatically increase accuracy and rate of installation. Application of the tool is quite uncomplicated - simply mark indicating lines on the door or frame to determine the placement of the strike, the template is then fastened to the surface using the provided self-drilling screws.

After the opening has been completed with the use of a router, the holes left by the mounting

A black and silver machine, likely a drill press or similar tool, with a motor and a handle.

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screws locate the holes needed for the strike mounting brackets. An experienced locksmith can cut an electric strike opening by hand in around 45-50 minutes - with the use of a Major Manufacturing electric strike tool, the same locksmith can do the same task in less than ten minutes!

### **HIT-44 Drillmaster**

The HIT-44 Drillmaster is an excellent drill guide which is unparalleled in terms of quality, resiliency, and accuracy. The HIT-44 is made of cast aluminum side plates with a 2-1/2" solid machined aluminum core to hold alignment. All shaft holes are run through brass bushings instead of just threading the side plates. This makes a part that can be replaced if ever worn out. In fact, any component of this tool can be replaced should the

unlikelyhood of a replacement part be required.

There are several other key features that separate it from the competition:

- Soft rubber jaws that increase holding power and protects door.
- Backset easily adjusts from 2-3/8" to 2-3/4" with the turn of a knob
- Accepts hole saws, auger bits and multi-spur bits for the latch hole



- Accepts hole saws and multi-spur bits for cross bore.
- Centering of latch hole is adjustable. No other unit can accomplish this.
- Latch hole can be drilled off center if necessary.
- All wear points are lined with replaceable bushings.

### **HIT-45 Modular Installation System**

The HIT-45 serves a dual role by not only functioning as a drill guide for mortise locks, but also as a router template on aluminum doors for the installation of Adams Rite style locks as well. This is a true modular system that will clamp on all styles of wood, metal and aluminum doors. The lock backset is calculated by backset studs that are centered to the door. The HIT-45 clamping pressure is positive and self-centering by design; doors from 1-

**Continued on page 52**

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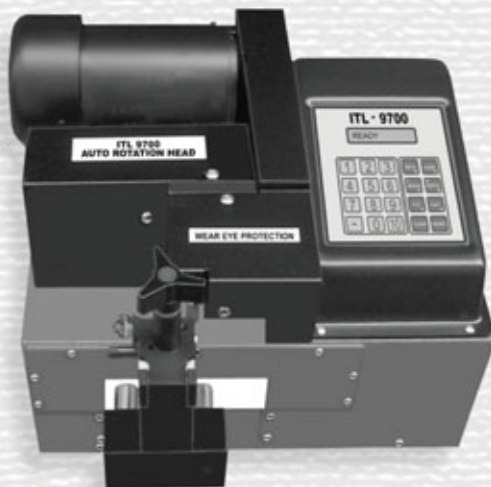
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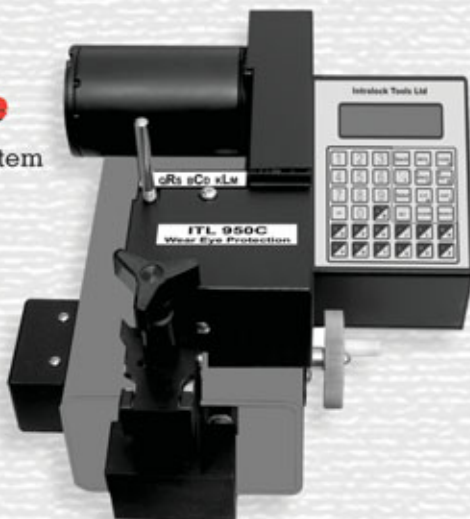
- ◆ Up to 800 built-in manufacturer depths and spaces.
- ◆ Works with most popular Master key systems.
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- ◆ 1 year parts and labor warranty.
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- ◆ Over 500 manufacturers depths and spaces built in.
- ◆ Finds, loads and cuts a car key in 15 seconds.



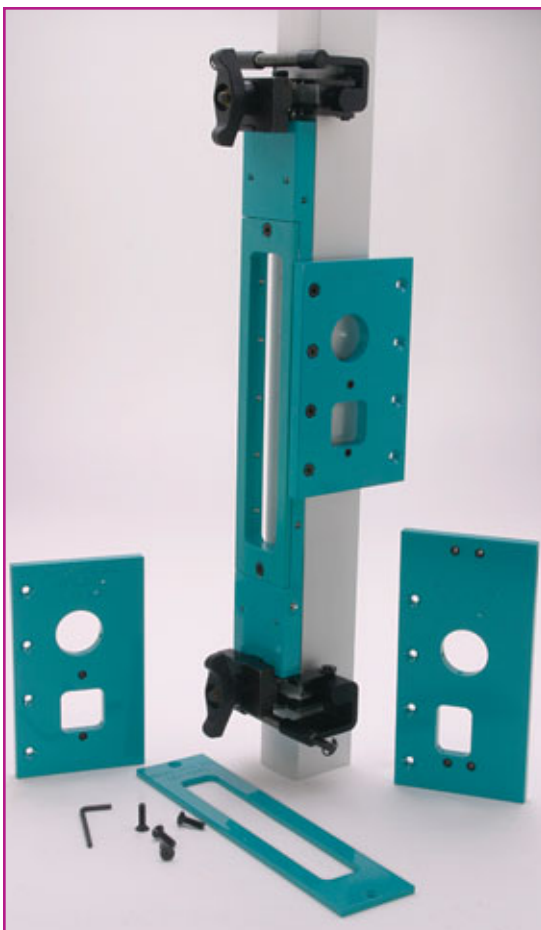
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1/4" to 2-1/4" thick can be accommodated.

The HIT-45 modular clamp system has become such a dependable tool over the last decade that many lock manufacturers recommend their customers to invest in one when attempting an installation of their hardware!

In summary, one last benefit of using any Major Manufacturing template is the noticeable reduction in the time spent when installing security hardware. With practice, a technician will not only turn out a professional-looking installation, but he will do it quicker and more accurately than his colleague who's doing it by hand using the

factory-supplied paper template. Time saved means less time spent on each individual job site. In other words, a locksmith can accomplish more with a Major Manufacturing template or drill guide, which translates to an increase in revenue for his shop because he can answer more service calls.

There are so many ways a locksmith can improve the quality of installations, doesn't it make sense for a seasoned installation specialist to have the tools to make the job easier, quicker, and with a professional-looking result?

For more information contact: Major Manufacturing Inc., 1825 Via Burton, Anaheim, CA 92806. Phone: 714-772-5202; Fax: 714-772-2302; E-mail: [mail@majormfg.com](mailto:mail@majormfg.com); Web: [www.majormfg.com](http://www.majormfg.com). Circle 383 on Rapid Reply. 

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## ACCESS CONTROL SURVEY PART 3



by  
**Richard Allen  
Dickey**

### Let's Start Installing

Last month we took a look at the 692 series touch bar from Locknetics and the EPT 10 power transfer from Von Duprin.

Remember, both of these companies are part of the Ingersoll-Rand family.

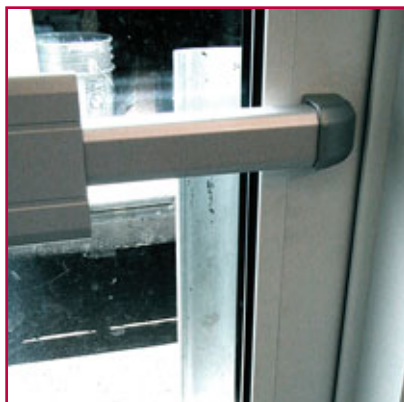
This month it is time to install these two items along with the KP 78+ keypad from Locknetics and the PX95 HID Prox reader.

The preparation for the EPT 10 is most often done at the factory according to the manufacturer. They use specially made installation jigs and have a lot of room to work. I liked the idea of concealing the wiring on this job, so the EPT 10 is a perfect pick. The big question is, can it be installed without special equipment? Maybe!

The power transfer cannot be installed until the touch bar is installed. Or is it the touch bar can't be installed unless the power transfer is installed first? This is one of those situations where neither device can be finished without at least starting the other installation.

My biggest concern is the safety of the wiring. You don't want to pull a wire inside a door frame and then drill a hole in it while prepping another device.

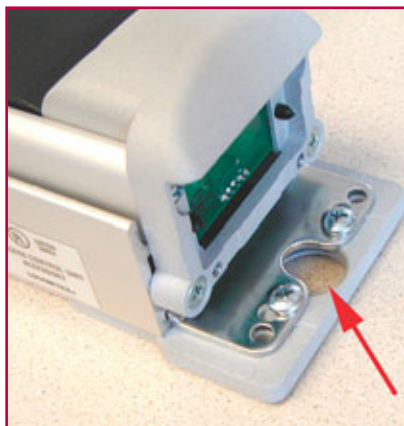
Both of these devices have to be installed together.



**1** The old push bar is removed by loosening two setscrews and sliding it off of two mounting studs.

The original push bar for the door has to be removed for the new touch bar. (See photograph 1.) By using the old mounting location, the old holes can be reused or covered.

The old push bar was mounted by sliding over two studs and



**2** The new 692 series touch bar has a hole on each end that will slide over the mounting studs.

then tightening setscrews. Luckily both ends of the touch bar have a hole perfectly located to slide over the studs. (See photograph 2.) This was great because one of the studs was also used to attach the outside handle and needed to be replaced or left alone. I chose to leave it alone and slide one end of the touch bar over the stud.

The hinge side stud had to be removed. It was attached to a blind nut that also had to be removed. (See photograph 3.) By drilling the blind nut, a path was provided for the wire to enter the door frame.



**3** The mounting stud on the hinge side of the door is attached with a blind nut. Both must be removed to provide a path for the wiring from the touch bar.

Two self-tapping screws at each end of the touch bar are all that is required for the



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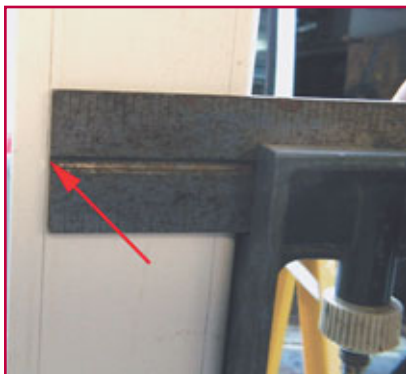


**4** The touch bar is mounted with two self-drilling/tapping screws on each end.

installation. (See photograph 4.) The other two screws in the photograph are used to attach the spacing adapter that is required for glass door installations. This is where we have to move on to the power transfer device before finishing the touch bar installation.

The EPT 10 can be installed in wood or metal doors. Since this is an aluminum door, I will be using a high-speed router type tool and a small diameter carbide bit. Because of the tight workspace and my lack of a jig, this cutout will be made freehand.

The area to be removed is 1-1/2" wide and 9-1/8" tall. The easiest way to mark this is to use an adjustable square and a scribe. By adjusting the square to



**5** An adjustable square can be used as a guide when marking the area to be removed for the EPT10 power transfer device.

the proper width, it can be used as a guide. (See photograph 5.)

Place the square on the edge of the door and slide it down along the edge while holding the scribe against the end of the square. A pencil can be used instead of a scribe, but may not be as accurate because of its wider point.



**6** A 1/2" hole is a good starting point for the high-speed cutter.

After marking the area to be removed, a starter hole is drilled. (See photograph 6.) It has to be large enough to insert the router bit without touching the edges of the hole.



**7** A carbide router bit works great when removing aluminum.

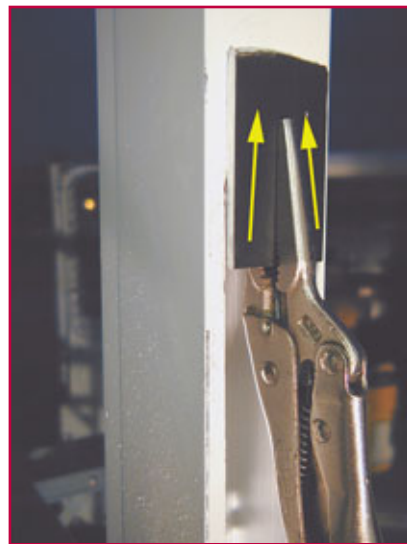
The aluminum used in the door is 1/8" thick. The carbide tipped router bit has no trouble cutting a path. (See photograph 7.) In a few minutes I had both the door and frame cut out. (See photograph 8.)

After the cutout is made in the door and frame, custom



**8** Both cutouts are made in only a couple of minutes.

mounting tabs can be made. I have used the prefab mounting tabs for electrified strikes in the past, but after making my own, I don't think I will use prefab again. Here is why:

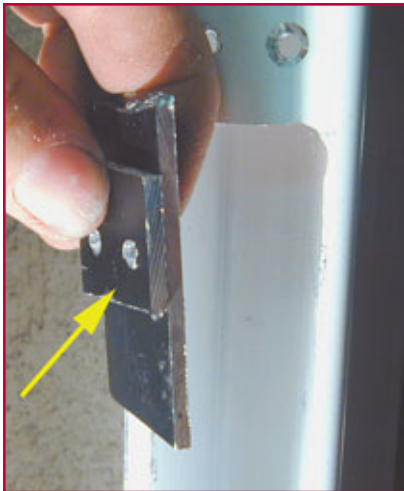


**9** Custom mounting tabs are your best bet because they never have an alignment problem like prefab tabs can.

Take a piece of stock material and clamp it into the same position as it will be used. (See photograph 9.) Drill two holes through the stock material and on through the door (or frame). The custom tabs are not interchangeable. Because the tab and door is drilled at the same time, there will never be an

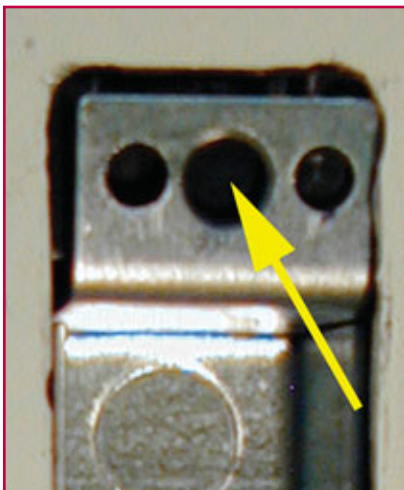
alignment problem. You get a perfect fit every time.

I use an 8-32 flat head screw for this kind of work. Von Duprin suggests using a 10-24. I prefer to save the number 10 screws in case I strip a hole for a number 8. The choice is yours.



**10** A spacer can be made from the same material as the mounting tab.

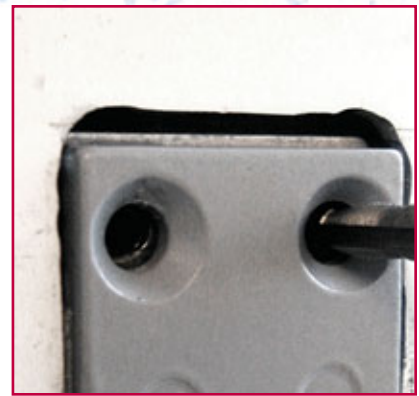
Tap the mounting tab and counter-sink the holes in the door. Spacers can be added as needed. For this job, one  $\frac{1}{8}$ " spacer together with the  $\frac{1}{8}$ " thickness of the door material gives enough room to flush mount the  $\frac{1}{4}$ " thick power transfer device. (See photograph 10.)



**11** The backbox is attached with one screw at the top and bottom.

After the mounting tabs are installed, the backboxes are attached to the mounting tabs with one screw on the top and bottom. (See photograph 11.) Next attach the transfer device with four screws. The drilling and tapping of the mounting holes should be done before any wire is run. (See photograph 12.)

Remove the transfer device and backboxes because it is time to run the wiring from the touch bar. The wire has a connector on



**12** Drilling and tapping should be done before any wire is run.

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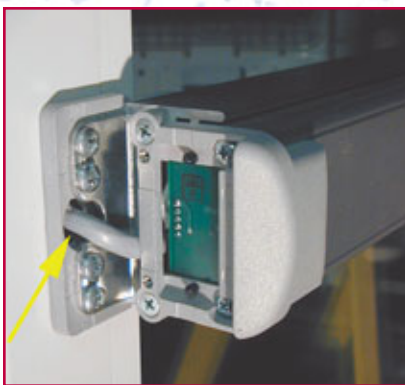
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**13** The wiring for the touch bar enters the door on the hinge side.

one end, which plugs into the main board inside the touch bar. (See August article.) The loose end of the wire passes through the hole into the door. (See photograph 13.)

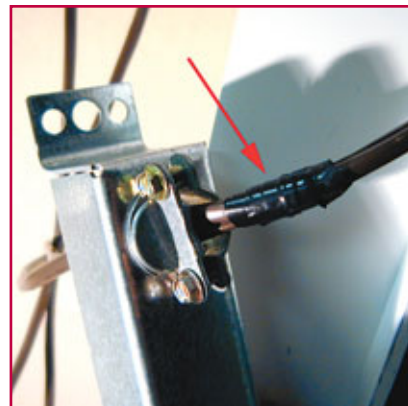
Pass the wire through one of the knockouts in the backbox. (See photograph 14.) The backbox for the frame side has knockouts designed for 1/2" conduit connections. (See photograph 15.)



**14** Pass the wire through the backbox and screw the backbox into place.

The wire connections can be made in one of several ways. Solder is about the best method, but it is slow and inconvenient in many areas. I have had people complain of the smell when in an office space. (I don't see the problem, I rather like the smell of hot lead and rosin in the morning!)

Some like to use wire nuts. You know, those plastic screw on things that electricians



**15** The frame side backbox uses 1/2" conduit fittings.



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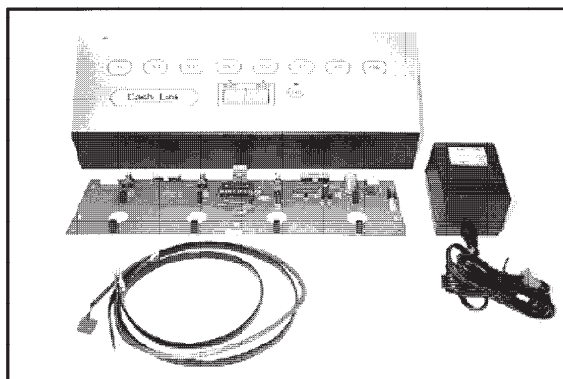
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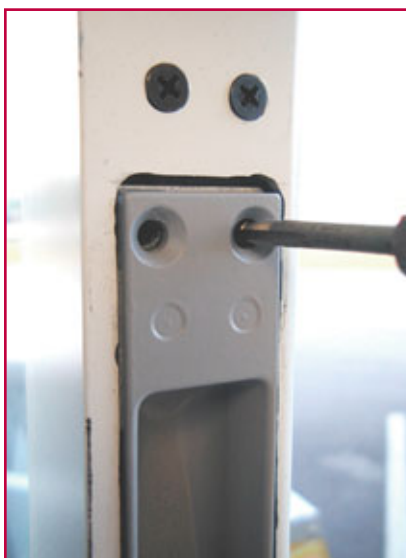
love. Don't use them here. They can and sometimes will work loose. Especially when you mix vibration and small gauge wires. If you have a loose nut, you will probably develop a problem.



**16** With the wire ends twisted together, use a butt or splice crimp style connector to complete the connection.



**17** Use a good heavy-duty crimp tool to make your connections. Poorly made, high resistance connections will cause more trouble than you can imagine.



**18** With the splicing done, screw the power transfer device into place.

The next best thing to solder is to twist the wires together and then cover them with a crimp style butt connector. If a butt connector is not available, use one end of a crimp style splice connector. (See photograph 16.)

Be sure to use a good heavy-duty crimp tool to make the connections. (See photograph 17.) This one cost about \$6.00 and came from Harbor Freight. A name brand product will cost about \$25.00. You can buy the more

expensive tool, but for this kind of work there is no need to spend the extra money. After the wires are spliced, it is time to reattach the main assembly to the door and frame. (See photograph 18.)

If you are prepping a door freehand, you may remove a little more material than intended. (See photograph 19.) Some bathtub sealant will do a good job of fixing mistakes.

**Continued on page 62**

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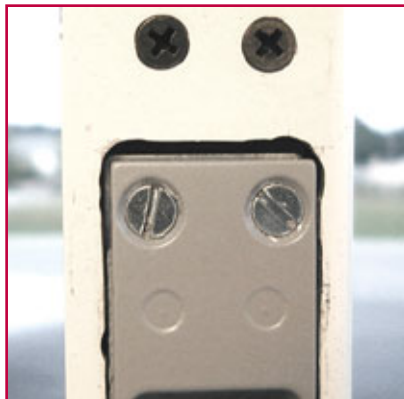
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Continued from page 59



**19** Working freehand can leave more of a gap than desired if you are not extremely careful.



**20** A little bathtub sealant can clean things up nicely.

(See photograph 20.) The finished product looks just fine.  
(See photograph 21.) With the



**21** The finished product looks just fine.

power transfer device in place, putting the end blocks on the touch bar finishes this part of the installation. (See photograph 22.)

The KP 78+ keypad (see photograph 23) and the PX95 HID Prox reader will be mounted on the outside of the main



**22** With the touch bar wiring complete, the end blocks can be reinstalled.



**23** Here is the KP 78+ keypad from Locknetics.

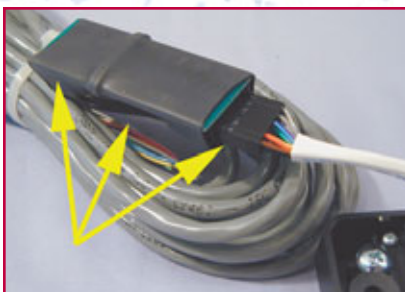


**24** The PX95 HID Prox reader will be installed along with the keypad.

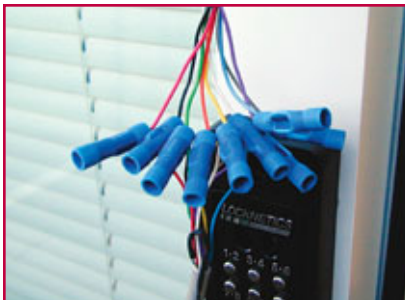
entrance. (See photograph 24.) This is the same door where all of the other work has been.

The KP 78+ uses a cable with a special connector. (See photograph 25.) It is a bit on the large size and must be fed into the door frame at the point where the keypad will be located. It took a bit of doing but I did get it to fit.

The PX95 prox reader does not use a connector. Instead you just splice wires. (See photograph 26.) It looks a little messy, but it will fit in a much smaller hole. Both devices attached to the frame with screws.



**25** The keypad uses a prefab cable with a special connector.



**26** Wiring for the Prox reader is done the same way as the power transfer device.

With the outside electronics installed and the touch bar with its power transfer installed, this puts an end to this month's fun.

(See photograph 27.)

Next month I will add the CT1000PS Controller and the 390+ x DSM/

**27**

Both the keypad and Prox reader make an attractive installation.



MBS Magnetic lock from Locknetics to the system.

Have a nice day.

For more information on any of the above products, you can contact Ingersoll-Rand at IR Security & Safety, 111 Congressional Blvd., Suite 200 Carmel, IN 46032 or call then at 317-613-8150. They also have a web site at [www.irsecurityandsafety.com](http://www.irsecurityandsafety.com).

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Firstly, the Equalizer allows you to apply a great deal of pressure to a drill motor. This is critical if you need to drill a safe for a relock that is remotely located somewhere on the door. You'd simply attach the Equalizer Lever Rig to the handle or around the safe with a chain, apply as much pressure as needed in any location to drill the hole required to neutralize the relock. You're not limited to just the dial ring mounting holes.



Secondly, if you opted to side drill a safe a couple inches back from the front edge, the quickest and easiest way would be to attach the Equalizer Lever Rig to the handle with a chain, and drill the hole as needed.

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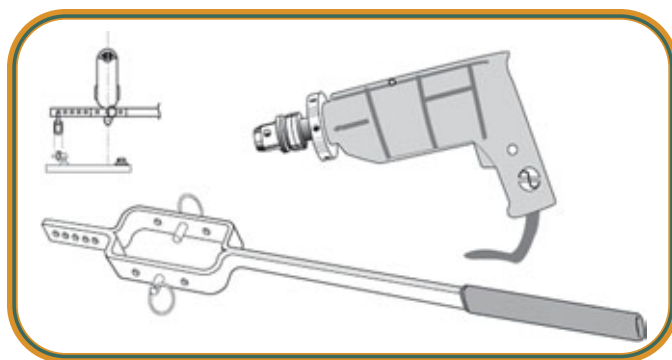
### Keedex Safe Buster & Bits

Keedex Inc., manufactures the K-14 Safe Buster & the Keedex

Carbide Tipped Drill Bits that allow you to use your Drill for opening safes. The design of the K-14, allows for a relatively quick setup time. The use of a split collar for securing the drill motor, allows a technician to quickly mount or free the drill motor from the rig.

The K-14 usually ships with a collar for the Bosch drill (part # K-14) or it can be ordered with a collar that is compatible with many of the Milwaukee drills (part # K-14-MIL).

Keedex Carbide Tipped Safe Bits are highly effective at penetrating hardplate, such as that found in safes. They also are effective in many other applications as well. The smaller sizes, such as the 3/16" x 6" is very good for



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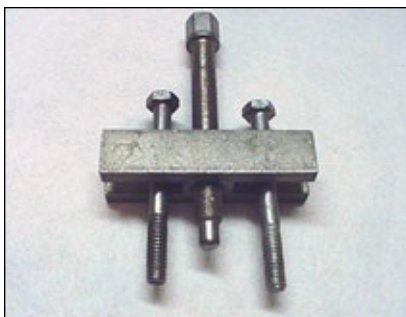


# Beginner's Corner



## Basic Automotive Service, Part 3 By Ken Holmlund

For the last couple of months I have talked about the tools needed to work on GM automobiles. Many of the same tools are used for Ford and Chrysler vehicles, so purchasing them will satisfy the needs for the big three.



**Photograph 1.**

As we have learned you will need the basic wheel puller for the steering wheel. (See *photograph 1*.) Several manufacturers make them available. The wheel puller will play a bigger role on Chrysler vehicles than Ford because many Ford ignitions can be removed without removing the steering wheel. You will need a different set of bolts to work most Chrysler steering wheels than for the GM, but they should be included in the set you get with the puller.

I would like to add a quick note here for the older American Motors vehicles. Many of them use the same Saginaw steering column as the GM and are serviced the same way. This includes some Jeep models as well.



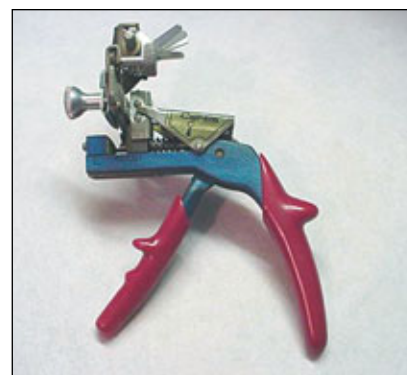
**Photograph 2.**

Chrysler uses a couple of different ignitions depending on whether the vehicle has a tilt steering wheel or not. (See *photograph 2*.) The locks are available from BWD, Strattec and others through your locksmith wholesaler or local auto supply house. Both use a spring retainer to hold the lock in place. I suggest you have a replacement ignition on hand to determine the location of the retainer the first couple of times you remove an ignition from a Chrysler motor vehicle. I have found some that have a second retainer on the backside of the ignition as well. I would suggest you invest in a simple mirror. It will help greatly if you have to go looking for a retainer and you will find many more uses for the mirror in the future.



**Photograph 3.**

To remove the ignition you can use anything that will press on the retainer. I like to use a 90-degree tool like the one in *photograph 3*. The ones I have are from a company named Carolina Roller, but should be available from your supplier. It is a handy all around tool that will serve many purposes. Have a couple of them in your toolbox and you will not be sorry.



**Photograph 4.**

In most cases, I do not remove the ignition unless it is in need of repair or replacement. Chrysler vehicles can be easily impressed, so I typically use a Curtis Clipper, see *photograph 4*, or cut the cuts on a code machine. (See *photograph 5*.) A-1 makes a punch called the Pak-A-Punch that is similar to the Curtis Clipper as well. I use the HPC 1200 Blitz code machine, but fine machines are made by Framon, Ilco, ITL, and others.

I have found that many older Chrysler ignitions show a lot of wear and I need to widen the cuts to get good readings. This is



**Photograph 5.**

easier to do on the code machine because it leaves a smoother flat surface to observe the marks. This is particularly true when deep cuts are involved as the pin has more wobble.



**Photograph 6.**

I would like to show what was needed to make keys for a 1989 Dodge Town & Country van that I was recently called to do. (See photograph 6.) This job was an example of Murphy's Law working against me.



**Photograph 7.**

As I have said several times, I like to impression locks whenever possible because it is faster and looks like magic. The first thing I do is cut a key to all number one cuts. (See photograph 7.) I am using the code machine due to the age of



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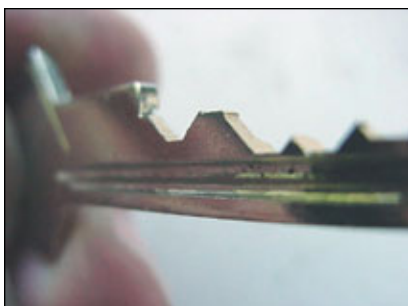
**Photograph 8.**

the vehicle and the before mentioned wobble in the lock. *Photograph 8*, shows the key and the impressioning tool in the lock. Although the door and ignition are usually the same in Chrysler vehicles, I prefer doing the door, as it is more accessible.



**Photograph 9.**

In *photograph 9*, you can see examples of good marks on the key blank as I work to impression the lock. One thing to be aware of when impressioning Chrysler vehicles: If you have a six cut next to a one cut, you will have a hook on the key. (See *photograph 10*.) This hook must be filed off before the key will go into the lock properly. I prefer using a pippin file to work on



**Photograph 10.**

brass keys since it does such a smooth job and leaves a good clean file when I am done. (See *photograph 11*.)



**Photograph 11.**

Well guess what boys and girls, the key worked fine in the doors and back hatch, but would not work the ignition. Someone had been here before. Since this particular vehicle uses an ignition that has a sidebar, I will have to remove the lock to get a key that would work in the ignition.



**Photograph 12.**

The first step is to remove the horn pad. (See *photograph 12*.) The first thing that strikes you is how remarkably similar this is to the GM Saginaw ignition I covered a couple of months ago.



**Photograph 13.**

We will be doing basically the same steps to make this key.

Next remove the steering wheel, usually with a puller because they are very tight. *Photograph 13*, show the column with the steering wheel removed.



**Photograph 14.**

In *photograph 14*, I am removing the retainer ring with two screwdrivers. *Photograph 15*,



**Photograph 15.**

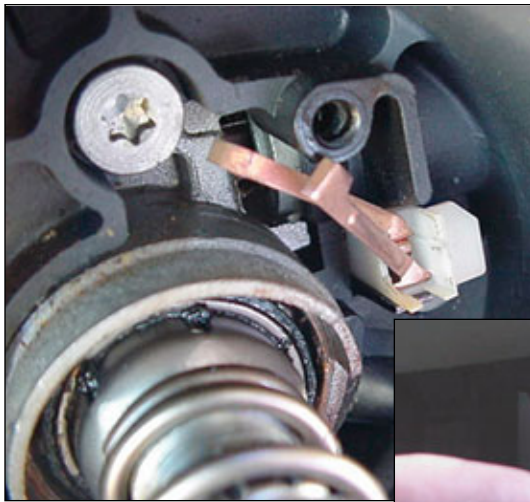
shows what is under the steering wheel locking ring. The turn signal must be removed before the collar will come out.



**Photograph 16.**

*Photograph 16*, shows the removal of the screw holding the turn signal arm. *Photograph 17*,





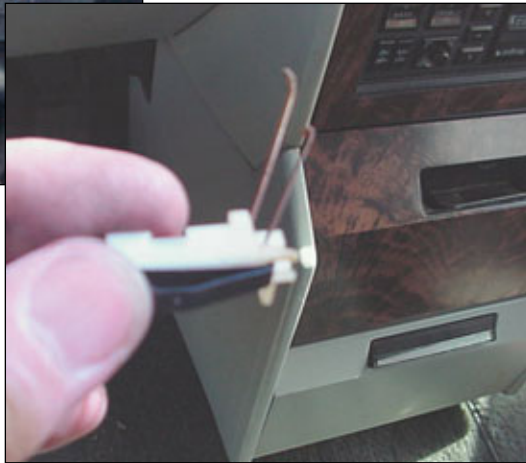
**Photograph 17.**

is the buzzer actuator that must also be removed because it covers the retaining screw.

In *photograph 18*, you can see the retainer screw that holds the lock in the column. Simply remove the retainer and the lock will come out of the column. (See *photograph 19*.)

Since this particular vehicle had previously been changed I

found no code number on the lock and simply replaced the ignition with a new one from stock. It can be taken apart, but my experience tells me to not spend the time doing it since the locks are so inexpensive.



**Photograph 18.**

did not help. The best redeeming factor was when the owner paid the bill and was glad



**Photograph 19.**

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to have his vehicle back. I was once told that if someone doesn't occasionally gripe about the prices you charge, you are not getting enough for your work, and I believe it. You can do a job that no one else in any other profession can do, and you should be compensated for that. I am not saying to gouge the customer, but to get a fair price for your knowledge and investment.



**Photograph 20.**

Removal of the door panel on the Chrysler is basically the same as GM and Ford, and requires the same tools. The handle and crank removal tool, see *photograph 20* will be needed in most cases as will the panel removal tools. (See



**Photograph 21.**

*photograph 21.*) The clip holding the lock in place is similar to the GM and will necessitate using the Clip Removal tool. (See *photograph 22.*)

Once the lock is loosened, it will pull a short distance out of the door, but will not be completely removable until you disconnect the linkage from the back of the cylinder. Again, I would caution that you try to keep the linkage where you can



**Photograph 22.**

get to it from the outside. It will save you time and frustration. Murphy's Law applies and the linkage will fall into the most inaccessible spot possible.

A reoccurring problem with Chrysler door locks is that they make their number one cut such that the length and diameter of the pin is almost the same. As usage causes the lock to wear, the hole becomes rounded and the pin turns and wedges tightly. Lubricating will only provide limited improvement in the situation. The best solution to the problem is replacement of the lock, and that will require removal of the panel, loosening the lock, disconnecting the linkage and removing the lock from the door. With the tools described above, you will be able to accomplish that task.



**Photograph 23.**

I have talked about impressing the locks in both Ford and Chrysler vehicles. To impression any lock, you will need a handle to administer the torque and bumping motion necessary to get the marks. I use Vise-Grip type of pliers like most do. (See *photograph 23.*) However there are manufacturers that make tools for the stated purpose that do a much better job such as the PRO-LOK LT-700 and LT-705 impressing tools, Framon's

IMMS001 tool and the HPC CGIT-10 tool. (See *photograph 24.*)



**Photograph 24.**

Both Ford and Chrysler trunk locks can be impressed, and since the trunk is often a different key than the door and ignition on these vehicles, impressing is a good tool to make the key. I would suggest you work at your skill level of impressing because it is indeed a skill. Although someone can give you the basics of impressing, you will have to develop your own style by experience. No one can tell you if you are placing enough, or too much torque on the tool when trapping the pins and wafers and if the bumping is sufficient to get marks. PRACTICE, PRACTICE, PRACTICE and you will get better. Don't get discouraged: it is a skill well worth having in your toolbox.

You will also need a pinning kit and one that includes GM, AMC, Ford, and Chrysler is the model 608771 from Strattec. Individual kits are available LAB, and BWD as well. A full listing of products available from BWD is shown on the website [www.lockmasters.com/pureauto/bwdcatalog.pdf](http://www.lockmasters.com/pureauto/bwdcatalog.pdf). An OOPS Kit from BWD is also a good investment. (See *photograph 25.*)

There are several good manuals on the market concerning automotive work and I would suggest purchasing several of them as aids in learning about vehicle locks. A quick glance through this copy of *The National Locksmith* and a visit to their website at [www.TheNationalLocksmith.com](http://www.TheNationalLocksmith.com) will give you a full listing of the



**Photograph 25.**

books they have available. Give it a look-see and learn this fascinating aspect of the trade from the best in the field.

The tools I have mentioned in this article are, for the most part, available from locksmith wholesale suppliers, but if you want to contact the manufacturers here is the information for that.

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# The Lighter Side

## Tricky Business



by Sara Probasco

**T**hat didn't take long," I said to Keith and Buddy as they came into the shop one afternoon following a service call in Eagle Pass, an hour's drive away. "Did y'all get finished down there?"

"Oh, yeah. It was a snap," Keith replied, sinking into the swivel chair at his work station. "I couldn't get the safe opened using conventional methods, so I tried a little 'trick of the trade' I learned from a retired locksmith in Bracketville, a few years back."

"What was that?" I asked.

"He said anytime he couldn't get a safe open, he would 'diagonalize' the door by pulling the opposite corners toward each other under pressure. And you know, it works! It just took a tiny amount of 'give' to the corners, and the door opened right up. After that, it was just a matter of servicing their safe and changing the combination. A piece of cake."

"Well, don't get too comfortable in that chair. I've got another call for you," Don said, interrupting his plundering of a supply drawer to hand Keith the work order.

Keith headed out to rescue another damsel in distress, as Buddy set down his toolbox.

"That was neat," Buddy said as he peered over Harold's shoulder to see what he was doing to the lock he'd just disassembled on his work bench.

"What was?" Harold muttered.

"Getting the safe open that way, and then resetting the combination. I'd never seen anybody reset a combination, before. Keith suggested a number

they could remember, even if somebody lost the combination."

"That right?"

"Yeah. He told them to start with three, then say three times two—that's six—then back off and say one times two is two, then fill in with four and five. So the combination is three-six, one-two, four-five. You know, one, two, three, four, five, six scrambled up. Isn't that neat? Even with my lousy memory, I could remember that."

"Aha! Found one!" Don trumpeted, holding up a tension wrench. He shoved the parts drawer closed and started for the front door.

"Where are you going now?" I asked.

"To finish up the job I started and hour and a half ago," he grumbled.

"What are you working on?"

"Oh, just a simple little job. A freebie, actually. John asked me if I'd mind stopping by on my way back to the shop and re-pin the cylinder in his front door. Nothing to it, I thought. Be out of there in fifteen minutes. Wrong! That's what I get for trying to sandwich a freebie in on a busy day. Sometimes I think Ted was right, when he used to say, 'No good deed goes unpunished.'"

"That's a simple enough job, as a rule. What's the problem?" I asked. Looks like I'd learn to keep my big mouth shut.

"Well, if you must know, I got in a hurry and picked the cylinder the wrong direction."

I waded in again.

"So you used your plug spinner, right?" I said.

"I would have, if I could've found it in the service van. *Somebody* obviously hadn't put it back where it belongs," he said, the volume of his voice rising, as he looked Buddy's way.

"So, you had to start over and pick it in the other direction, I assume."

"No," he said, "I decided to try a 'trick of the trade' I'd come across, recently, and use a rubber band, instead."

"You lost me on that one."

"Simple. You wrap a rubber band around the tension wrench," Don said, demonstrating with his hands, "pull it taut, and it's supposed to act just like a plug spinner."

"Amazing!"

"Well, it would be, if it had worked. The particular lock I was working on apparently didn't have enough tolerance."

"So you had to re-pick it, after all?"

"I couldn't"

"Why not?"

"Well, somebody apparently neglected to mention a potential problem in executing this little trick," Don continued. "The rubber band yanked the tension wrench out of the cylinder and it flew half-way across the lawn and buried itself somewhere in the grass. I couldn't find it. When I returned to the service van, I discovered that *somebody*," his voice was growing louder again, "had failed to put a spare tension wrench in the place where it should be, so I had to come back here to the store and find another one. So far, that little



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**Continued from page 74**

fifteen-minute, give-away, side job has turned into a two-hour project, including a round-trip back to the shop. And, you will notice, I'm not through, yet."

Don finally finished the job, and the day progressed pretty much as usual until almost closing time, when Keith and Buddy pulled up out front, returning from their last scheduled service job of the day.

As Keith came inside, Don called to him from his office.

"Hey, Keith, the store manager down in Eagle Pass just called and wants you to call him back. When you got through working on his safe, down there this morning, you forgot to give him the new combination. They can't lock up for the day without it."

"Oh, man!" Keith headed for the door. "I know I wrote it down. Besides, Buddy said he'd remember it." Back to the service van he went, where Buddy was making sure all the tools were in their proper places before quitting time. After several minutes, Keith returned, a grimace contorting his face.

"Buddy doesn't have a clue, and I can't find the paper I wrote it down on, so we don't know what the new combination is."

"Well, call the man back and see what they can do. If you can't get something worked out to secure their safe tonight, you'll just have to go back down there now, and re-combine it."

"It's thirty-six, twelve, forty-five," Harold said without looking up from his work bench.

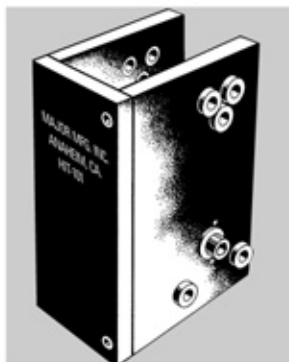
"What?" Keith asked.

"The new combination. It's thirty-six, twelve, forty-five."

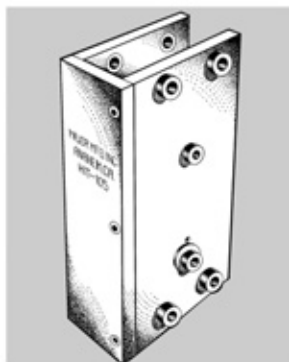
Keith's mouth dropped open.

"You're right. I remember, now. But how did you know? You weren't even there," he said.

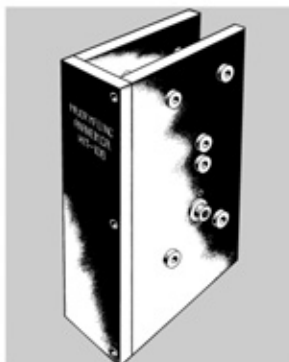
"A little trick of the trade," Harold replied, smiling. "Let's just say I'm psychic." **TNL**



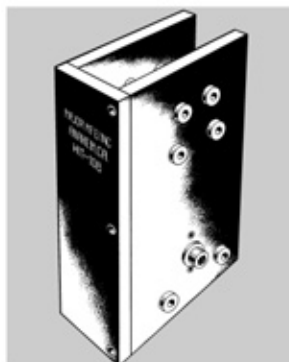
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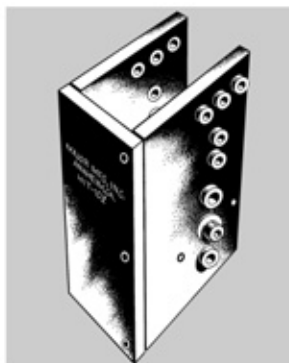
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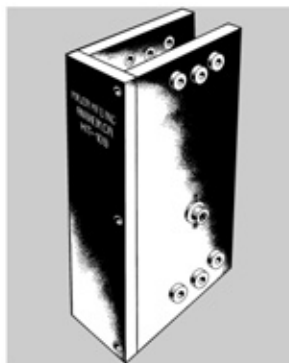


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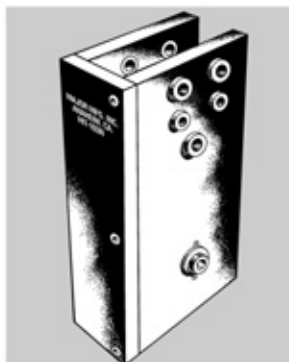


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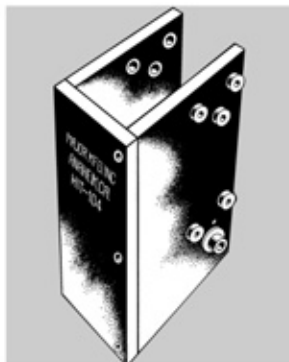


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**G**ardall Safe Company makes a full line of fire safes and containers for handling cash. This article will cover one of their more popular small safe doors. The safe body is about 11" by 11". The door is 9" wide by 9-1/2" tall.



**1. Typical Gardall container door used on a variety of boxes. This particular unit is a rotary hopper model.**

The basic door and combination configuration can be seen in *photograph 1*. There is a bulldog on the dial, which is the Gardall Logo. The dial also indicates an Ilco Unican 6730 type group II combination lock. There is a pull handle to the left of the combination lock. This indicates that the door is locked by turning the combination dial. There is

no 'turn' handle to throw the locking bolt.

The safe used in this article was a rotary hopper type cash unit. Deposits were made in the hopper, and when turned they would fall into the combination locked compartment. This small unit is usually bolted to the floor for security. This particular unit was free standing and I turned it over and opened it through one of the bolt down holes. More on this later.

There is no cover over the lock and bolt when the door is opened.

Everything is exposed and that makes reading the lock easier through the change key hole. Of course there is a shiny chrome sticker covering the change key hole, but that was easily scraped off by a sharpened car opening tool.

*Photograph 2*, shows a close up of the combination lock cover with its special relocker flag. On this safe the slot in the relocker

protrusion is used to restrain the relocking device. The end of the relock bar is flattened and the cover must be twisted to insert it in the slot. There are other holes on this cover that can be used in a variety of relock situations. The holes in the cover are for relocking devices that use roll pins to hold back the relocker.

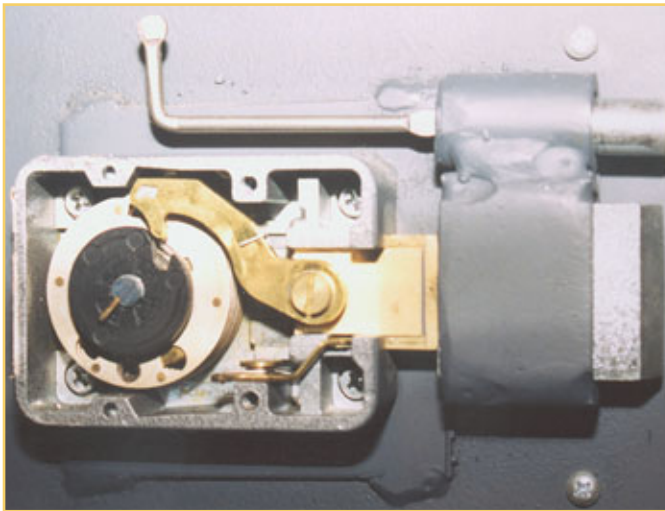


**2. The cover on this Ilco 6730 series lock will accept a variety of relocker bars and pins. Note how flat of relock bar fits into the slot on the cover.**

Also in *photograph 2* can be seen the bolt of the combination lock and how it is attached to the large locking bolt of the safe door. There is a screw in the end of the combination lock bolt with a thread lock compound on it. This screw fits into a circular hole in the center of the large locking bolt. A simple, but efficient way of attaching the two bolts together. Also a shiny spot over the key change hole shows

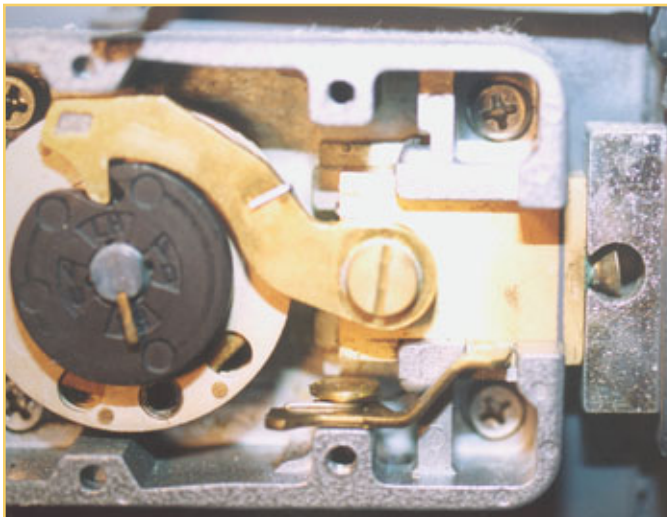
where the chrome tape was attached to the cover.

Ah, the full picture. *Photograph 3*, shows the combination lock with the cover removed. The relocker is fully extended. I have flipped the relock bar up to show the flattened end. There is a case relocker which is the classic fulcrum type relocking device in many group II locks. Also shown is the large door locking bolt.



**3. Back cover removed shows the cover relocker (above) and the internal relocking trigger activated.**

*Photograph 4*, is just a close up of the locking bolt and the combination bolt connection and the internal relocking trigger. It is hard to see, but when the relock bar is free, the end of it is right above the combination lock dial spindle hole. If the dial is punched, it might be possible to



**4. Close up of internal relock trigger and the bolt attachment of the lock to the locking bolt of the safe door.**

hook this bar with a folding tool and retract the relocker. It does not cross lock and can be withdrawn easily. There is a better way, however, if you have access to the opening side of the safe.

There are several viable options for opening this safe. If you have the time, then manipulation is a nice alternative

to drilling. Pulling the dial and drilling for the drop-in or a transfer position with the MiniRig can also be done. Sometimes pulling the Ilco dial can be a disaster, and the spindle will break off flush with the face of the door. This is a minor, but aggravating problem. Drilling is the next option.

A fast and dirty way to open this unit is to have access to the opening side of the safe. You can easily drill and punch the large locking bolt through the opening side of the safe. The drilling position is 1" back from the face of the door in line with the dial center. First, you must determine the backset of the door to the edge of the safe.

On this unit, the door is recessed 1-1/8" to the outside edge of the door. Thus, by adding

an inch, the correct drill point is 2-1/8" back from the outside edge of the door in line with the center of the combination lock dial. On this unit, the dial center was 6-1/2" from the bottom of the safe. Therefore the correct drill point is 2-1/8" back from the front and 6-1/2" above the bottom of the safe. This point will put you exactly in the center of the lock bolt on this particular safe. I usually drill a 1/4" hole and use a short punch. Quick, down and dirty.

If the relocker has been set off, just drill 1-1/2" above the hole used for punching (or the centerline of the dial). Drill a small hole and push back the relocking pin from the side of the safe. The backset is the same for the lock bolt and for the relocking pin.

However, the fastest and easiest way of opening this safe is to drill and read the combination through the key change hole. The configuration of the Ilco wheel gate makes this quite easy and straightforward when lining up the

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wheel gates or hub positions. First scrape off the safe sticker to get a clear view through the change key hole. If the safe is mounted to the floor, drill 2-1/2" back from the edge of the safe door and this will give you a great view through the side of the safe to the back of the safe lock.



**5. Wheel gate with cutout in base of gate. Two wheels are aligned here. Cutout makes alignment easy.**

*Photograph 5*, shows the Ilco wheel gates. They have the traditional wheel gate shape, but along the bottom of the gate there is an additional cutout at the base of the gate. This makes aligning the wheels through the key change

hole a snap. Usually one must align either side of the wheel gate to the next wheel gate. Not always so easy to do. But, with the cutout there, it hits you in the eye. In *photograph 5* there are two wheel gates aligned. It may be hard to see in this picture, but it is easy to see in real life through your borescope.

If you happen to align the first wheel and come to a wheel hub, it is quite easy to align the extra cutout at the bottom of the gate with the center of the hub and the alignment line on the hub. (See *photograph 6*.)

Once you get the scope in the door and have a view of the wheels, all key change combination locks are easy to open.

When going to open this type of safe, price it accordingly as to how hard it will be to open. That is why I usually look before I price. A week ago I priced a Sentry Safe opening without seeing it first. I heard it was an electronic lock on a new door. Nothing to it. I priced it thinking I knew everything



**6. Wheel gate with wheel hub on second wheel. Again, the cutout in the bottom of the wheel gate makes proper alignment fast and easy.**

about this door. Boy was I wrong! I priced the opening at a quick \$80.00. There were other prices at \$140.00, \$160.00, and even \$175.00.

Do not go in blind. Sentry has completely changed the position and the vertical alignment of the solenoid. Imagine my surprise. First, see the door if you can, next quote a range of price span. Do not be overconfident unless you see the unit first. Live and still learn. Open the easy way, do not under quote, and Prosper. **RL**

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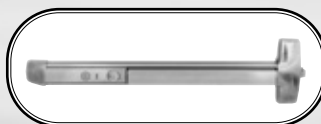
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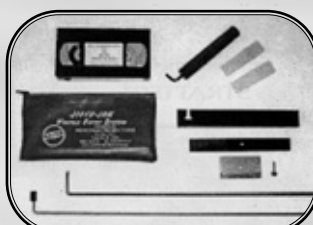
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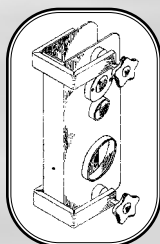
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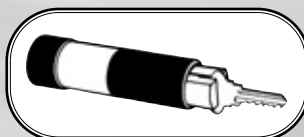
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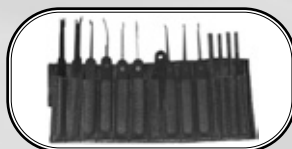
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**Tips Start  
on Next Page**





**JET KEY BLANKS  
WINNER:  
Template Holder  
for Metal Doors**

When installing a Trilogy T2 lock on a metal door for the first time, it was a little rough having to set the template up to make sure everything was level and square. I started out with C clamps, but when I had to make an adjustment I had to use both hands to loosen the clamp and then move the template.

Looking for a better way of doing this, I grabbed a magnet that I had in my toolbox and just placed it on the template. After a few minor adjustments and after making sure everything was level and square, I used my automatic center punch to mark the drill points and everything went smoothly for the installation.

*Frank Kitchen  
Indiana*



**WEDGE CO KEY  
EXTRACTOR WINNER:  
Three for One Car  
Opening Wedge**

Virtually any hardware store that sells wood chopping or splitting equipment has large (3-1/2" x 10") heavy-duty, plastic wedges that are used to split logs. One of these wedges will make you three heavy-duty car-opening wedges.

Simply use a table saw to cut the wedge into three 1" strips. The wedges are strong, durable and in a bright orange color, easy to spot when you need one. Also, since it is longer than the average auto-opening wedge, it gives you more flexibility when it comes to how wide you want to make your opening (within reason, of course).

*Thomas B. Suddath  
Washington*



**STRATTEC WINNER:  
Make Your Own  
High-Security  
Lock Pick**

A few years back I was given a VW 2-

## A Few Words From Jake...

Mark this one on your calendars! Because of the length, complexity and the number of photographs for this month's Technitips column, I'm cutting my few words down to a very few words! However, I ask that you note two things:

One: Ed Gorgulho's tip on the BMW picks. Ed is from South Africa. The National Locksmith is truly becoming an international trade journal!

Two: In February 2004, I celebrate my 10<sup>th</sup> anniversary as Technical Editor of *The National Locksmith*.

See y'all next month!



*by Jake  
Jakubowski*

track door handle to rekey. I noticed that if you place a 2-track VW depth key cut to 11-11-11-11 in the plug, it will raise all the slides to the highest position. In other words they will all be above the shear line. With the exception of the #1 slides which will be at the shear line.

Now, if you apply a counter-clockwise tension to the plug and pull out the depth key all the slides will remain at their highest position (as long as you maintain a binding pressure on the plug), just like when the depth key was in. If you slowly start releasing that counter-clockwise tension you will hear the slides start clicking down. If you do this very carefully, they should only drop down to the shear line—provided you keep a bit of that counter-clockwise tension on the plug. All the slides should eventually stop at the shear line and the plug will now turn...to the *locked* position. Bearing in mind you now have a lock turning to the locked direction and it must be flipped over to *unlock* the car.

With this discovery I went about making a picking tool for

these locks. I started off by making the turning tool first. (See *photograph 1.*) It is simply two pieces of steel strapping (the kind that wooden crates normally come wrapped in) that have been pop riveted together. I then bend them into shape and file them so that each tooth was exactly 3mm wide (which is the exact size of the keyway in the lock). This tool should fit quite securely into the keyhole and provide the required tension to pick the lock.



**Photograph 2.**

The next thing is to make the pick. I used a Silca HU66 blank and cut it down to 11-11-11-11. I then cut off the head of the key so that I was left with just the blade. (See *photograph 2.*)



**Photograph 1.**

Note that the shoulder of the key must be filed down slightly so that when the key is in the lock the turning tool can still fit. If you don't file down the shoulder slightly there will be no room for the turning tool.



**Photograph 3.**

Okay, so now you have a key blade with no head. What I did was use a 10mm ordinary bolt about 100mm long, with a notch filed in it. (See *photograph 3.*) I drilled a hole in the key blade and the bolt and attached the two together by means of a 3mm machine screw. So now you have a turning tool and pick.

My last problem to overcome was a tool to successfully flip the picked lock back to the unlocked position. For this I just modified a standard plug spinner. (See *Photograph 4.*) I removed the blade and then filed down a piece of steel to fit securely in the keyway of the cylinder when it is ready to be flipped. The size of the bar should be 3.5mm wide and 11mm high. This bar is then screwed on to the plug spinner.



**Photograph 4.**

These locks pick quite easily when the action of the slides and springs are slowed down slightly. To do this you must introduce heavy grease into the lock that will slow down the slides—but

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not stop them from moving. I am unfamiliar with American lubrication products, but the grease I use is Castrol LM grease. It seems to work really well for me, but you will have to experiment with whatever works for you.

The lock is now ready to be picked. Place the pick all the way into the lock as you would a normal key. Now place the tension wrench in the lock and apply the necessary counter-clockwise tension to bind the slides. Pull out the pick but keep an even tension on the lock. Slowly start releasing the tension and you will hear the slides drop down. As you hear (and feel) them drop keep testing to see if the lock will turn to the locked position. After a few clicks the lock will turn. If the lock hasn't opened then start over again and try with varying degrees of tension. The more you experiment the more proficient you will become. When the lock is picked it is just a matter of inserting the plug spinner and flipping the lock to the unlock position. Easy!



**Photograph 5.**

The exact same method can be done to make a tool for the BMWs. VWs and Audis. Audis are normally tougher than BMWs, but you will be amazed at how fast this simple tool opens the BMW's. The BMW pick is made in the same way as the VW pick. Cut all the spaces on a blank key to all 1's to raise all the slides above shear line. I haven't had the opportunity yet to try this tool on the Mercedes 2 track

and Volvo's etc., but I feel sure that the same principle will apply. Also, bear in mind that in South Africa we have right hand drive vehicles so the directions to pick the locks may vary.

Finally, *photograph 5* shows the complete set of picks and tools that I made or modified to accomplish this task.

*Ed Gorgulho  
South Africa*

Editor's Note: Ed, thanks for the tip. For those of you who don't want the hassle of making your own BMW, VW pick, Lockmasters sells a flip pick for these cars. If you do want to follow Ed's suggestion and make your own, you will need a really heavy-duty plug spinner to flip the plug to the unlocked position on these cars. That tool is also available, separately, from Lockmasters. It is Part Number: RGN and sells for \$125.00.



**HPC WINNER:  
Battery Backup  
for Alarmed  
Panic Hardware**

I had a couple of calls to change the battery in panic bars that had the large 6-volt dry cell batteries with plug-in connectors. I knew a conversion kit existed, but had not bought one.

Since I did not have one and couldn't locate the plug in style battery, I simply cut off the male connectors on the wires and taped them to the new dry cell. That worked, but was not the best solution as far as I was concerned.

On the next one, I took only a 9-volt battery with me, only to find it was another 6-volt plug-in style. I touched the connector to the 9-volt, pushed the panic bar in and the alarm worked!

Since I carry 9-volt connectors that I bought at Radio Shack (\$3.50/pkg. of 5) for other things, I cut the plug-in connector off again and spliced in the 9-volt connector. The alarm was just as loud as with the larger 6-volt and I no longer need a conversion kit (List \$35.00).

*David Craig  
Illinois*

Editor's Note: David, I know from experience that this procedure will work. However, I'm not sure what long-term problems—if any—might crop up because you are, in essence, using a 9-volt battery to power a 6-volt device. Since, the operation of the alarm is not continuous; I don't immediately see any severe problems, but would check it out with someone at the hardware manufacturer. Otherwise, I think it's an excellent stopgap trick. Thanks for sharing.



**SARGENT AND  
GREENLEAF  
WINNER:  
S&G 6120 Bypass**

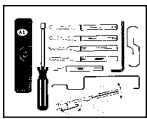
Here's how I open a Sargent & Greenleaf 6120 that has malfunctioned, in about twenty minutes.

First, I take the keypad off and pull the wire out of the way so that I can drill directly into the spindle hole with a  $\frac{5}{16}$ " drill (I have used a  $\frac{3}{8}$ " drill, as well). I drill very, very gently into the back of the lock case and expose the armature. Once I have the armature exposed; I use an ice pick to probe the armature in either direction until the bolt is withdrawn.

I've found this to be a quick, simple method of defeating the 6120.

*Richard Oliva  
Ohio*

Editor's Note: Dick, thanks for the tip. The method that you describe will work very, very well on the older S&G 6120's. However, S&G quickly recognized this weakness in their lock and corrected it by inserting a hardened plate over the armature to protect it. Interestingly, you can still successfully attack a 6120 in the manner you describe except you have to stop when you reach the hardened plate and then probe the plate out of the way, thereby exposing the armature! The only exception I would take to your method is using a drill bit to cut your hole. It would be much safer if you used an end mill cutter to cut through the back of the lock case. Using the end mill rather than a drill bit eliminates the possibility of the drill bit accidentally grabbing the motor windings and damaging the lock and motor.



**A-1 SECURITY  
PRODUCTS WINNER:  
The Work is Easier  
When You're  
Comfortable**

The opening of a lock is much easier if you are not uncomfortable with leg, foot, back, or neck strain if the lock is about eye level and you are in a stable position. The use of all pick and turning tools are much better controlled if you are comfortable and at ease.

Being at eye level is vital to reading a lock and helps when impressing, or manipulating a safe. Drilling is more accurately done if you are at eye level with your work area and are not cramped (not always possible) and tense.

I have found that the simple answer is a folding canvas campstool. I prefer one with wood legs, since they seem more stable. Using a stool or other type of seat can improve your skills and comfort greatly. Which in turn makes the job go easier.

It can be somewhat of a pain to carry another piece of equipment to the work area, but I find that in the long run it's well worth the effort.

*Coleman Bovender  
North Carolina*



**ILCO KEYBLANKS  
WINNER:  
Tip for Faster  
Lock Servicing**

When rekeying or servicing a lock or several locks, I found that customers appreciate the quality of the work first. Secondly, how quickly and efficiently the job was done. In many cases when rekeying or servicing a lock, putting on and taking off the locks take up a lot of time. Through my years of locksmithing I've noticed locksmiths taking locks off with screwdrivers, which I believe takes too much time, and becomes strenuous. I've also noticed locks being taken off with cordless screw guns, which I believe, can sometimes strip the screws or the

screw heads, not to mention the fact that it is often difficult to align the screw gun properly.



**Photograph 6.**

The way I've developed to take off locks is with an Electricians screwdriver, which can be found at most hardware stores. (See photograph 6.) This screwdriver has a curved shaft and ball bearing at the bottom of the handle, which allows it to rotate, and spins using only a slight bit of wrist movement. With one of these screwdrivers (available almost anywhere electrician tools are sold) you can remove screws quickly, easily and look very professional doing it.

*Christopher Pariseau  
Arizona*

Editor's Note: Christopher, several years ago, Dennis Harmon submitted a similar tip and I bought a set of these screwdrivers. I show them in my tips and tricks seminars and use them regularly on service calls. Great product. Thanks for mentioning them again!

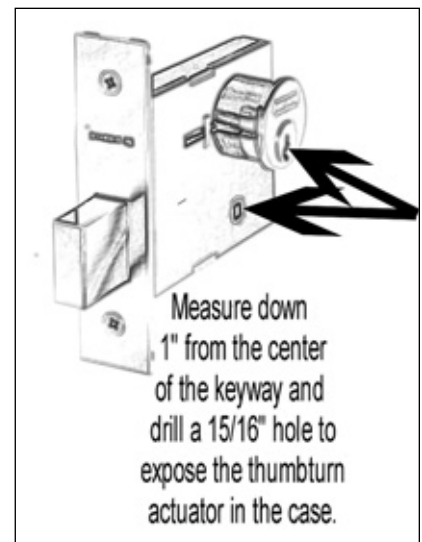


**KEEDEKX WINNER:  
Bypassing a  
Sargent 4870  
Auxiliary Deadbolt**

Here's a simple way

to open one of these locks if the cylinder refuses to pick or the lock has a high-security cylinder in it.

Drill a  $1\frac{5}{64}$ " hole exactly 1" down from the center of the keyway of the cylinder. (See photograph 7.) This hole will put you right on target and expose the thumb turn actuator in the lock case. Simply insert a flat bladed screwdriver in the slot, turn the actuator, and the door is unlocked.



**Photograph 7.**

The 4870 is a non-handed lock, so the actuator will operate from either side of the case. That's the weakness that allows you to bypass this style lock.

*Michael Maldonado  
New York*

Editor's Note: Michael, this is a good tip. My only concern is the repair to the door. If the door is metal, any number of ways presents themselves to repair the door without too much difficulty. However, if the door is a finely finished wooden door, drilling a hole in that door might cause your customer some anxiety, since there is very little you can do to repair the hole without it being noticeable. I think rather than drill an expensive wooden door; I might discuss (with the customer, of course) the practicalities of drilling the cylinder, instead. Anyway, thanks for the idea...it does have applications.





**TECH TRAIN  
TRAINING VIDEO  
WINNER:  
Opening a  
Storefront Door  
with a Car Tool**

A while back I was asked to open a vacant storefront for a contractor that was remodeling the building. When I arrived, I found the entire outside was covered with plywood, even the doors. I had the contractor remove the plywood from over the doors so I could access the locks.

The last time I was at that particular site, it was a thriving Taco Bell. Since then, someone had installed high security cylinders on the doors and I knew that I had very little chance of picking those cylinders. On the inside of the doors the locks were operated by a thumb-turn. I focused my opening efforts on that thumb turn.

I used the short end of a "Z" tool from my automotive opening kit to manipulate the thumb-turn

and unlock the door. It took a little effort to get the tool between the doors, but once I had the tool inside, it was a simple matter to flip the thumb turn, open the door, remove the cylinders and install new cylinders with a standard keyway.

*Fred Spencer  
Pennsylvania*

**Editor's Note:** Fred, good opening. To make it easier the next time, use your Air Wedge—if you have one—to help gently spread the doors enough to insert your tool. For future information: Lockmasters makes a tool designed specifically for opening a set of double aluminum, narrow stile, store front doors. It's a dandy.



**SIEVEKING  
PRODUCTS GM E-Z  
WHEEL PULLER  
WINNER:  
Opening A Kwikset**

There is an easy way to unlock the Kwikset 400 series key-in-knob lock when it won't pick. This process is similar to opening a locked vehicle.

Using an ordinary steak knife (I dull the blade so that it will not scratch the surface of the door, or if the tool slips, cut a finger), I insert the knife between the rose of the lock and the surface of the door, as shown. (See photograph 8.)



**Photograph 8.**

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B48-P91A-P1098A	IN28-54FN-1054FN	SC10-145F-A1145F
B49-S91B-S1098B	IN29-1054UN	SC20-145L-A1145L
B50-P91C-P1098C	IN33-54MT-1054MT	SC22-307W-1307W
B51-S91D-S1098D	IN35-1054DL	SE1-102-1022
B52/B4-98X-1098X	K2-79HK-1079B	SEB-102AB-1022AB
BE2-A114A-A1114A	KW1-54KS-1176	SK1-R21EN-R1001EN
BN1-L54P-K1122D	L1-35-1004	T3-111E-1141E
B01/HL2-22B-R1003M	L4-35A-1004A	T7-111GE-1141GE
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CG2-41GA-1041GA	M2-92B-1092B	WK2-175W-1175N
CG4/CG3-41GR-1041GR	M4-U82A-1092V	WR3-54WB-1054WB
CG16-41R-1041T	M10-92N-1092N	WR4-54WA-A1054WB
CG17/KP1-41Y-1041Y	M11-92T-1092H	WR5-54WC-N1054WB
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C0106/PL1-R22B-1003M	RU45-57-1D-1011D1	Y52-7E-997E
DEB-54DR-D1054K	RU46-A57-1D-A1011D1	Y54-07E-0997E
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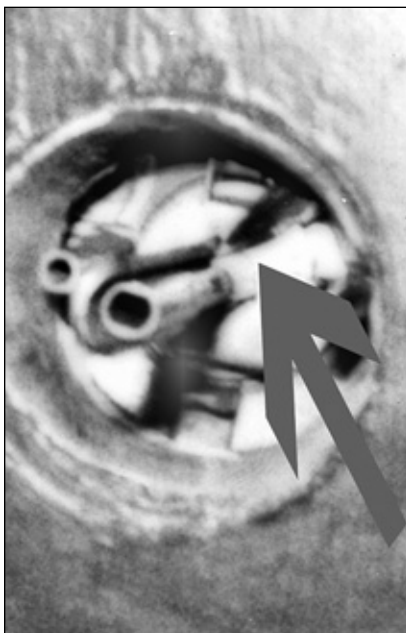
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request order form.**

The knife blade is inserted either at the top of the lock, or the bottom, depending on whether the lock is on the right hand side of the door or on the left-hand side of the door. If the lock is to the right, the knife is inserted at the top of the lock. If the lock is to the left, the blade is inserted at the bottom of the lock.



**Photograph 9.**

The knife blade is placed behind the rose and pushed downward (or upward, as the case may be) until some resistance is felt (about a 1/2").




**Photograph 10.**

Work the knife slightly to the left to bypass the obstacle. Once the obstacle is out of the way, rotate the blade from the 12 o'clock position to about the 11 o'clock position as shown in *photograph 9*. Now, push the lock down about 1" until the tip of the blade engages the "V" shaped notch on the locking spindle. *Photograph 10*, is an enlarged version of the part of the lock spindle you are aiming for.

While pushing down on the blade, rotate the knife handle back to the 12 o'clock position (keep downward pressure on the blade) and you will unlock the knob set.

When working on the opposite side of the door, keep in mind that all of your positioning is reversed and you have to push upward rather than downward.

*Larry Bors  
Oklahoma*



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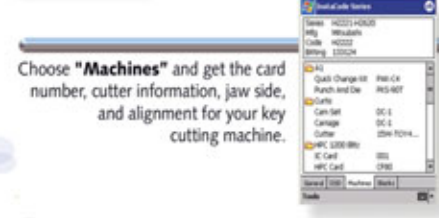


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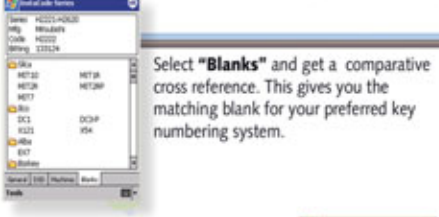


Item	Series	Part	Depth
1	2500	2500	1
2	5000	5000	2
3	7500	7500	3
4	10000	10000	4
5	12500	12500	5
6	15000	15000	6

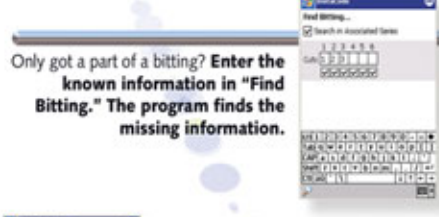
Choose "Machines" and get the card number, cutter information, jaw side, and alignment for your key cutting machine.



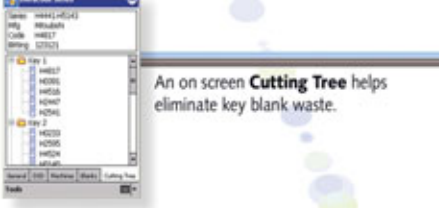
Select "Blanks" and get a comparative cross reference. This gives you the matching blank for your preferred key numbering system.



Only got a part of a bitting? Enter the known information in "Find Bitting." The program finds the missing information.



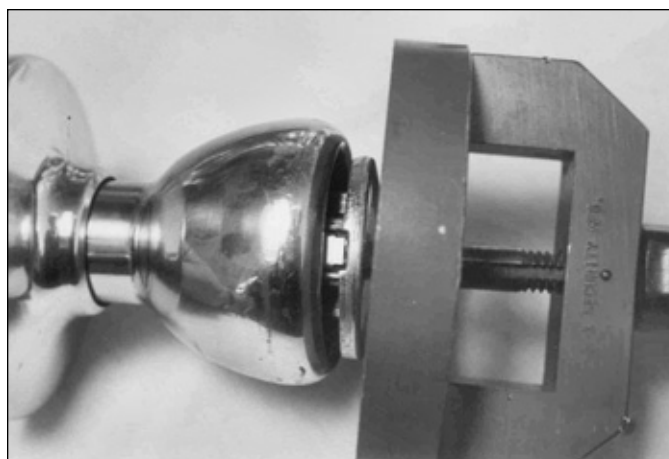
An on screen **Cutting Tree** helps eliminate key blank waste.





Editor's Note: Larry, thanks for the tip. I know (from experience) that it will work provided there is enough room between the surface of the door and the rose on the lock. If the lock is mounted tightly to the door, there is not enough room to get the knife blade in position. Several years ago, there was an ice pick trick that worked in a similar fashion, although that procedure suggested drilling a hole (angled) between the door and the rose to allow entry of the ice pick. I've found the easiest, and cleanest method (although more

expensive than your tip) to open a locked Kwikset is with A-1 Security's QuickPull, which is available from most suppliers. (See photograph 11.) Just pull the cylinder, flip the spindle to the unlocked position and open the door.



**Photograph 11.**

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**Major** MANUFACTURING, INC. MAJOR MANUFACTURING PRODUCTS WINNER: Quick Interchangeable Core Pinning Tip

Here's a quick way to figure the pinning on an interchangeable core cylinder, without doing a lot of paperwork or filling out charts. Once you master this procedure, you can actually do a core in your head.

Just keep in mind that the bottom pin values as indicated in this chart are of the *total* of the bottom pins and master pins, if any. Also, keep in mind that in order to determine the driver pins, you have to add your bottom pins and your control pins and subtract that total from 23.

Here's how it works:

First write down your Control Key cuts. Then write down your bottom pin totals. If the Bottom Pin value is greater then the Control Key value; subtract the difference from 10 to obtain your Control Pin value. If the Bottom Pin value is less then the Control Key value, add the difference to 10 to obtain your Control Pin value. If the Bottom Pin value and the Control Key value are the same, 10 is automatically your control pin value.

Refer to *photograph 12*, for clarification.

Chamber	#1	#2	#3	#4	#5	#6
Control Key Cuts	3	6	4	2	5	5
Bottom Pin Values*	7	4	4	3	1	5
Control Pin Values	6	12	10	9	14	10
Top or Driver Pin Values**	10	7	9	11	8	8

**Photograph 12.**

\* Equals the total of bottom and master pins.

\*\*Add Bottom Pin values and Control Pin Values subtract *that total* from 23 to obtain Driver Pin values.

Just two quick notes:

Look at the first chamber. The Bottom Pin value is greater than the Control Key cuts. The difference between 7 and 3 is 4. 4 subtracted from 10 equals 6. 6 is the Control Pin value for that chamber. In Chamber #3 and #6, the Control Key cuts and the Bottom Pin values are equal. The Control pin is therefore 10. Also note that in each chamber, the Bottom Pin values and the Control Pin values are added together (Chamber #1:  $7 + 6 = 13$ .  $23 - 13 = 10$ ) and the total is subtracted from 23, which gives you a Driver Pin value of 10.

Play with the figures a little bit and you will see how easy this really is.

*Pete Gamble  
North Carolina*



**LAGARD WINNER:  
Determining a Lost Combination**

Often a customer will phone a locksmith when his safe won't open. If they recently changed their own combination, there are a number of mistakes they could have made to cause the lockout.


A locksmith can usually open the safe without drilling by using variations of the combination. But with the customer watching over your shoulder it is easy to forget all the variables. That is why I recommend using the following checklist and follow each of the steps to solve 90% of this kind of lockout.

Lockout after Combination Change (for 3 wheel combo):

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1. Try the new combination but make the following changes:

- a. Subtract 1 from all numbers
- b. Subtract 1 from 1st number
- c. Subtract 1 from 2nd number
- d. Subtract 1 from 3rd number
- e. Add one to all numbers
- f. Add 1 to 1st number
- g. Add 1 to 2nd number
- h. Add 1 to 3rd number

2. Assuming the distance from changing index to the opening index is eight numbers; you can try the following. If the distance is more, (for example 10) then use whatever the correct number is.

- a. Subtract 8 from all numbers
- b. Subtract 8 from 1st number
- c. Subtract 8 from 2nd number
- d. Subtract 8 from 3rd number
- e. Subtract 8 from 1st & 2nd numbers
- f. Subtract 8 from 1st & 3rd numbers

g. Subtract 8 from 2nd & 3rd numbers

3. If the above has not allowed you to open the safe, try the following, before drilling:

- a. Subtract one revolution from 2nd number
  - b. Subtract one revolution from 3rd number
  - c. Add one revolution to 2nd number
  - d. Add one revolution to 3rd number
4. And, finally, try this:

- a. Replace 1st number with 1st number of former combination
- b. Replace 2nd number with 2nd number of former combination
- c. Replace 3rd number with 3rd number of former combination
- d. Add 2 to the 3rd number
- e. Without redialing the combination progress the 3rd number one number at a time until you have gone completely around the dial.

Mike Spencer  
Canada



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HES Inc., has introduced an innovative program to help better serve the needs of their installers. This program will provide installers feedback opportunities regarding HES products and services, as well as previews of upcoming HES electric strikes, accessories, and security products, including free prototype samples.

Once established as an HES Consultant, the installer is able to voice comments and suggestions through a series of e-mail question-and-answer surveys. This allows the installer to provide valuable input on new product concepts, such as the soon-to-be released 4500 and 9500 series (fall 2003), but also regarding existing products. With a first glimpse at the newest innovations, the installer carries the badge of "valuable player" in the concept and design process. Installers are able to sign up on the newly revamped HES website, [www.hesinnovations.com](http://www.hesinnovations.com).

## **ISM Safe Passes TRTL-60x6 Test**

Wilson Safe Company ([www.wilsonsafes.com](http://www.wilsonsafes.com)) and ISM Safes ([www.ism-safes.co.il](http://www.ism-safes.co.il)) announced that the new ISM passed the U.L. six-sided, sixty-minute torch and tool burglary test. ISM becomes the only safe company in the world approved to manufacture a safe with this level of security.

ISM Safes are best known in the security industry as the leader in high security engineering since 1924. Wilson Safe Company was appointed as the ISM distributor for the United States in August 2001.

*For more information contact: Bob Kassoff, VP Sales & Marketing. Phone: 800-345 or 8053 ext 280; E-mail: [WilsonSafe@aol.com](mailto:WilsonSafe@aol.com)*

## **Security Lock Distributors Stocks Ives Products**

Security Lock Distributors is a full-line stocking distributor of Ives home and builders 92 hardware products, now offers Antique Pewter-620 (US15A) and Satin Nickel-619 (US15) finish decorative hardware to complement Schlage F Series locksets and B Series deadbolts.

*The company is headquartered at 25 Dartmouth St., Westwood, Mass. 02090. Product information and online ordering is available by clicking [www.securitylockdistributors.com](http://www.securitylockdistributors.com); or call: 1-800-847-5625.*

## **Secura Key & CCL Label, Inc Announce New Business Partnership**

Secura Key, a manufacturer of access control solutions, announces a strategic partnership with CCL Label, Inc., the global leader in printed security solutions for personal care, cosmetics and pharmaceutical products. Together, Secura Key and CCL Label will be able to

offer an uncompromising portfolio of products.

They are committed to providing customers with all forms of Smart Labels, cards and access control solutions.

## **Jeron Awarded GSA Contract**

Jeron Electronic Systems, Inc. has been awarded a Federal Supply Schedule Contract (No. GS-35F-0331N) by the U.S. General Services Administration. The GSA schedule includes Jeron's Spectrum® series Security Intercom products, Provider® and Pro-Alert™ series Nurse Call Systems, and Safeguard™ 950 High Security Intercom System.

The Spectrum Digital Duplex Intercom System offers hands-free or private two-way voice communication throughout an entire facility in a wide variety of security applications.

*Contact them at: Phone: 773-275-1900; Fax: 773-275-0283; Web: [www.jeron.com](http://www.jeron.com); E-mail: [sales@jeron.com](mailto:sales@jeron.com).*

## **Corporate Safe Specialists Training Manual**

Corporate Safe Specialists (CSS), has become a licensed distributor of "The Armed Robbery Training Manual, 6<sup>th</sup> Edition" in CD ROM format. The manual is written and produced by John D. Moore, CPP, whose writing and consulting career focus around business with a high risk for armed robbery. "The training of

employees, in high-risk business today, can help minimize business and employee risk. Reducing such risk is essential in minimizing potential loss, and liability when a robbery does occur," says Moore.

The CD contains 699 MB of content, images and slide programs; including 31 CORE topics of discussion, 54 support topics, 22 PowerPoint slide programs, and high-resolution images of weapons and devices.

## **Key Ring**

Key Ring is the Official Newsletter of The New York Master Locksmith Association.

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# 2003 Triumph Bonneville T100



by  
**John  
Blankenship**



1. This bike was built to resemble the very popular Triumph Bonneville models of the 1960's and 70's. There are two locks and they use different keys.



2. The ignition lock is located on the left headlight bracket, just like the original Bonneville models.

3. The ignition lock has three positions; Lock, On, and "P" (parking lights on/ignition off). You need to push the plug in to turn it to the "P" position, but you do not have to push it in to turn it back to the On position.



4. To disassemble the ignition lock, begin by removing the left headlight mounting bolt with a 13mm or 1/2" wrench or socket.

5. With the bolt removed, the headlight bracket will swing back and give you access to the back of the lock.



6. Remove the two Phillips screws that secure the switch to the back of the lock.



7. Pull the switch cover and plate from the back of the lock. At least one of the contacts on the switch plate is energized with 12 volts so it is a good idea to place a plastic bag over it to prevent shorting it out. Then pull out the white plastic switch rotor while being careful not to lose the two detent ball bearings that are on the back of it.



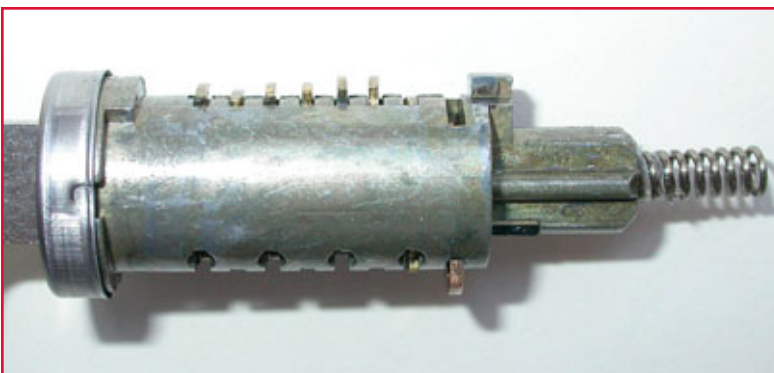
8. The switch rotor has been removed revealing that the two detent ball bearings have dropped to the bottom of the lock housing. You can also see the retainer protruding from the plug at the 8 o'clock position.



9. I used some silicon grease to stick the two detent ball bearings back into position on top of the detent springs. This will hold them in place during reassembly. There is a groove on one side of the tailpiece slot so it can only be installed one way.



10. You can depress the retainer shown in photograph 8 and push the plug out the front. The wafer tumblers will easily drop out when the plug is removed, so it is a good idea to insert a pick into the keyway to hold them in. This will not work with the wafer retainer because it is open on one end, so be prepared to hold it in.



11. The spring in the back of the plug stayed in so I did not remove it. The ignition plug contains seven wafer tumblers and a wafer retainer. A blank inserted into the keyway shows the cuts are 3233441.



12. The original Triumph blank is shown on the left; it is Triumph part number T2500440. There are no aftermarket blanks available, so it is necessary to modify existing ones. In the center is a modified X119. To modify an X119, duplicate the original onto an X119 using the tips as a stop. The width of the X119 is correct, but the shoulders need to be trimmed back. If you don't have an original blank, trim back the shoulders on an X119 so the shoulder to tip measurement is .930 inch. The easiest way to do this is to use another X119 as a pattern blank and space the shoulder .150" from the shoulder stop. Then duplicate the shoulder of the pattern blank onto an X119 that has been shoulder stopped. Just make sure you do not duplicate the tip as well. On the



**Key Blanks:** Original - Triumph Part Number T2500440

You can modify - Ilco KW14, Curtis KA18, Silca KW14 or X119 (YH47), Curtis YM58, Silca YH28, Jet YH47-NP

**Codes:** C8001-C9000 (not available)

**Spacing:** 1=.118, 2=.217, 3=.315, 4=.413, 5=.512, 6=.610, 7=.709

**Depths:** 1=.295, 2=.276, 3=.256, 4=.236

**Note:** You can use card MC51A, DSD 428 or ITL 255, drop the 7th space toward the tip, and add a 1st space toward the bow.

right is a modified KW14. To modify a KW14, duplicate the original onto a KW14 using the shoulders as a stop. The width of the KW14 is correct, but the tip needs to be shortened. If you don't have an original blank, shorten the tip on a KW14 so the shoulder to tip measurement is .930 inch. The easiest way to do this is to use another KW14 as a pattern blank and space the shoulder .100" from the shoulder stop. Then duplicate the tip of the pattern blank onto a KW14 that has been shoulder stopped. Just make sure you do not duplicate the shoulder as well. The tip shapes are the same on the original, KW14, and X119 blanks.



13. The original key is on the left. In the center is a modified X119 that has been code cut with cuts of 3233441. On the right is a KW14 that I duplicated the original key onto. At first I did not shorten the tip, but it hit the end of the keyway and would not turn the lock. I shortened the tip and it worked well. Actually, the length does not have to be exact because this key is only used on the shoulder stopped ignition lock. Some other models that use this key have tip stopped gas caps and seat locks that require the shoulder to tip measurement to be exactly .930 inch. Note: This is the same blank, spacing and depths as those used on 1995 & 1996 Triumphs as well as 1997 to present Adventurer and Trophy models.

## 4-Way Reversible Latch Lock

Available in National D4291 and CCL R1 Keyways

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999R / 997R  
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998I / 996I  
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998V / 996V  
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### General Features

- Field reversible among 4 handings: door left-hand, door right-hand, drawer vertical, and drawer inverted
- Easily rekeyable via set screw cylinder release mechanism
- Pin tumbler cylinder
- 999/998 - National D4291 Keyway
- 997/996 - CCL R1 Keyway
- 1/4" latch projection
- 26D or US4 finish
- Includes matching strike with alignment mark
- Reinforcing trim spacer #ETS6 and template #ETST6 available for through-bolt mounting of cabinet lock
- US Patent Nos. 4,899,563; 4,920,774 and other patents pending

Includes matching strike



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14. A Neiman steering lock is located on the right side where the steering shaft passes through the frame. It is shown with the dust cover closed.



15. The lock is in the locked position but the steering is unlocked. It unlocks by turning the plug about 45 degrees counter-clockwise. The whole lock can then be pushed in to lock the steering or allowed to pop out under spring pressure to unlock the steering.



16. The lock is shown with the steering locked. To lock the steering, the handlebars must be turned to the right or left to align the bolt hole in the steering shaft with the bolt on the back of the lock. Then turn the plug about 45 degrees counter-clockwise, push it in, and then turn it back clockwise until the key can be removed. You usually have to wiggle the steering a little so you can find the right spot for the bolt to enter the bolt hole.



17. The lock can be impressioned, picked, or shimmed from the front as shown in the photograph.





18. To remove the lock, pry off the dust cover by using a screwdriver between the housing and cover. The cover has to be removed in order to pull the lock out the front of the housing. The dust cover pin is pressure fit into the lock housing.



19. The dust cover and pin with washer are shown removed. It may bend a little, but clamping the dust cover in a vice straightens it out and the pin straightens out when you hammer it back in.



20. The lock is shown being removed from its housing. It was unlocked during removal so that the locking pin was aligned with the back of the pin chamber housing.

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21. The lock is shown removed. The rear of the lock is the steering lock bolt with the return spring on it. When you unlock the lock the locking pin aligns with the pin chamber housing so the lock can move in and out. This is a 5-pin lock and the pins are very small.



24. Use a hammer to drive the dust cover pin back into its hole.



22. The number 0139 is stamped on the face of the lock but it is not the code.



25. These key blanks will all fit the steering lock. The difference in the shoulders does not matter because the face of the plug is used as a stop for the shoulder of the key. From left to right are the old Taylor B69K, Ilco SR61N and Ilco Y61.



23. If all else fails you can drill the lock to remove it. Place a mark 5/8" from the tip of a 5/32 drill. Drill 5/8" deep while being careful not to break the bit on the pins. Then use a No. 3 broken bolt extractor to turn the plug counterclockwise to unlock and remove it.

**Codes:** AA11111-AA55555 direct read bow to tip.

**Blanks:** Ilco Y61 or SR61N (B69K), Curtis MC44, Silca NE31 or NE5

**Spacing:** 1=.142, 2=.246, 3=.350, 4=.455, 5=.559

**Depths:** 5=.236, 4=.217, 3=.197, 2=.177, 1=.157

**Card Number:** MC10

**DSD:** 400

**ITL Number:** 57



26. From left to right is the original key, a code cut SR61N and a code cut Y61. They all turn the lock smoothly.

TNL



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## WEB REVIEW

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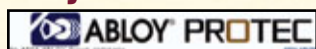
[www.demanda1.com](http://www.demanda1.com)

### A&B Safe Corporation



[www.a-bsafecorp.com](http://www.a-bsafecorp.com)

### Abloy® DiskLock Pro



[info@abloy.ca](mailto:info@abloy.ca)

### Adrian Steel



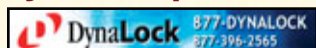
[www.adriansteel.com](http://www.adriansteel.com)

### DiMark International



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### Framon Mfg. Co.



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### Herbert L. Flake Co.



[www.hlflake.com](http://www.hlflake.com)

### Gator Tools Co.



[www.gatortools.com](http://www.gatortools.com)

### HPC, Inc.



[www.hpcworld.com](http://www.hpcworld.com)

### International Locking Devices, Ltd.



[www.gatelock.com](http://www.gatelock.com)

## Indiana Cash Drawer Co.

<http://www.icdpos.com/>



Indiana Cash Drawer Co., offers a useful line of products for the many locksmiths who assist their clients with cash handling and related products.

The company offers both manual and electronic cash drawers, and a line of peripherals including printers, and money trays. The locking cash drawers offer a particularly good profit opportunity for the locksmith.

The web site gives an excellent overview of the product line, along with links to all the company's literature. This is great for those times when you want to show your customer graphics of the product. Print out the literature you need and

you've got instant sales sheets.

Online, you're able to apply for credit and dealer status, which makes beginning the relationship very simple. Tech tips also offer handy hints on using the products to their best advantage.



### Jet Hardware Mfg. Co.



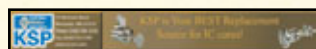
[www.jetkeys.com](http://www.jetkeys.com)

### Major Manufacturing



[www.majormfg.com](http://www.majormfg.com)

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[www.iccore.com](http://www.iccore.com)

### McDonald DASH Locksmith Supply



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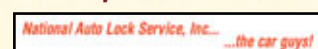
[www.midwestwholesale.com](http://www.midwestwholesale.com)

### Monaco Lock



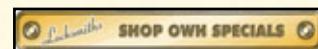
[www.monacolock.com](http://www.monacolock.com)

### National Auto Lock Service, Inc.



[www.laserkey.com](http://www.laserkey.com)

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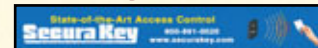
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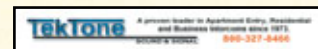
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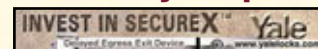
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# TEST DRIVE

## Protecta Spray Lube

by SFR Corporation



### THE NEED:

Being able to lubricate various items like lock cylinders, lock parts, tools and bolts is a constant need for locksmiths. There is not a day goes by that we do not need to lubricate something in our work.

Finding the lube that works best for your individual wants and needs is sometimes a taxing and expensive proposition. The wide and varied types of lubricants in the market range from petroleum based to silicone and all the possibilities in between are available.

### THE PRODUCT:

The SFR Corporation of Butte, Montana has an advanced formula spray lube on the market by the name of PROTECTA. The spray lube is not a petroleum-based product, and as such does not leave a sticky film behind to attract dust. It is an industry-grade lubricant that has been tested to withstand five times more pressure than leading brands.

Its superior strength formula penetrates, lubricates, adheres and cleans a wide variety of industry applications.

### USES:

My experience with PROTECTA spray lube is pretty much limited to locksmith and general shop usages, but I have seen the demonstration of the tremendous pressure it can withstand and still maintain its integrity.

As far as locksmithing work goes, I have found PROTECTA to be a very effective lubricant for lock picking,

loosening tight parts, making drawers slide easily, and freeing stuck bolts and the like. I use the product daily and have for several years.

In addition to the lubricating properties it has, PROTECTA is a superior cleaner for things from the dirty lock parts to the filthy countertop in my work truck. It dries without leaving any sticky residue and therefore does not attract dust, a real plus if you live in a rural area like mine.

How about water resistance you ask? PROTECTA has a highly water resistant formula that drives moisture from working surfaces. The carrier will evaporate, leaving a protective, long-lasting, non-greasy, dust free film.

PROTECTA rids most surfaces of tar, grease, heavy oils and adhesives. It stops rust and corrosion and adheres to the surface of the metal parts for long-lasting protection.

### DIRECTIONS FOR USAGE:

As with most spray lubricants, PROTECTA comes with a nozzle, but the spray has a difference. The difference is that the volume of spray is adjustable from light to heavy by just turning the spray top. This comes in handy if you are working with locks; say to lubricate them for picking. Too heavy of a spray and your face gets the benefit of the back spray. With PROTECTA you can set the spray to light and eliminate the pesky problem we have all experienced.

Now suppose you want to clean the inside of a sticky lockset but don't want to take it all apart. Just adjust the spray

### IN SUMMARY:

**DESCRIPTION:** a quality lubricant and cleaner that dries to a non-sticky film that will not attract dust.

**PRICE:** \$4.37 for a 10-ounce spray can.

**COMMENTS:** I have used this product for years and have not found a single case of dirt buildup due to any film on the locks.

**TEST DRIVE RESULTS:** A good product deserving of your consideration should you be looking for a lubricant for your shop.

to heavy and liberally coat the parts in question. I bet the sticky problem is going to vanish very quickly.

Want to spray a larger area? Just remove the nozzle and the spray will be dispersed over a wider surface.

The technical data for PROTECTA is available from the manufacturer at the location I detail at the end of this article. Suffice it to say that I have used PROTECTA in 40 degrees below zero and 113 degrees above and have found it to function equally well in all environments. It does not freeze up like some forms of spray on the market. In fact, I have used it to free up frozen locks in vehicles on more than one occasion.

### AVAILABLE SIZE AND COST:

Although PROTECTA is available in several sizes ranging from 55-gallon drums to 10-ounce spray cans, the most likely candidate for locksmith usage is the 10-ounce spray can. The 10-ounce can costs \$4.37, F.O.B. Butte, Montana and is available in single can or case lots directly from SFR Corp at the contact points below. If you should so desire, they are looking for area distributors as well as end users.

### CONTACT INFORMATION:

*Superior Friction Reducer*

**SFR Corporation**


1011 E. 2<sup>nd</sup> St.

Butte, MT 59701

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Downs started Downs Safe  
and Lock more than a century  
ago in Atlanta, Georgia, and  
it remains a staple in the  
community to this day. In  
1963, George Pinson purchased  
Downs Safe and Lock and  
continues to run it as a family

business with sons, Calvin and  
Joe, who share the responsibilities  
of running the shop and carrying  
on the family business. Downs  
continues to grow their business  
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them when we need them," says  
Calvin. "By having the products  
we need, it allows us to get jobs  
done in a timely manner and to  
keep our customers happy." With  
all the changes over the past 50  
years, our shared values remain  
the same, mutual respect, trust,  
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and providing great customer  
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